



The CHEMIST AND DRUGGIST

for RETAILER - WHOLESALER - MANUFACTURER

Established 1859

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Diary) 20/- Single Copies 9d.

IMPORTANT U.G.B ANNOUNCEMENT

The NEW WHITE MOULDED KORKALITE SCREW CAP

MANUFACTURED FROM UREA
POWDER—TASTELESS & ODOUR-
LESS—FITTED COMPOSITION
CORK LINERS RESISTOL FACED

Commencing during March, 1938—as rapidly as present packed stocks are exhausted—the BLACK moulded screw cap has been replaced in the U.G.B. standard MOULDED screw cap service by the new pure WHITE cap. For many years there has been a strong preference for a WHITE cap but the manufacturing cost has been prohibitive. U.G.B. technicians have finally overcome the cost obstacle and we are now able to supply this much superior pure white moulded cap WITHOUT EXTRA COST to the user.

The Cork-Mouth and White Enamelled Aluminium Screw Cap Washed and Sterilized services are unchanged.



U.G.B. WASHED AND STERILIZED MEDICAL BOTTLES HAVE EVERYWHERE PROVED A LABOUR-SAVING AND ECONOMICAL PROPOSITION. THE UNIQUE U.G.B. PROCESS PASSES EVERY SINGLE BOTTLE, WHETHER CORK MOUTH OR FOR SCREW CAPS, THROUGH BOILING DISTILLED WATER AND DRIES IN SUPER-HEATED FILTERED AIR

UNITED GLASS BOTTLE
MANUFACTURERS LTD

The Largest Manufacturers of Glass Bottles in Europe

8 LEICESTER STREET, W.C.2

Telephone: Gerrard 8611 (10 lines) Telegrams: Unglaboman, Lesquare, London

NEKO

THE SOAP WITH A PROFIT WORTH MAKING

NEKO (Germicidal Soap, P., D. & Co.) has strong sales points which you can use to your advantage. It can only be sold by chemists, because it contains mercuric iodide, which makes the germicidal power of Neko thirty times that of pure phenol. In selling Neko you sell a product which customers MUST buy from a pharmacy.

The soap that makes "double" sales. Customers come in for corn-pads—sell Neko as well for tired feet. A lotion for dandruff—sell Neko as a shampoo. For bandages—sell Neko to clean the wound. In fact you can sell Neko whenever an antiseptic is indicated. Sell a soap that is truly disinfectant, one with prestige and a really good profit. SEND FOR TERMS.

M.R.P.

Is. 3d.

**PARKE, DAVIS & COMPANY
50 BEAK STREET, LONDON, W.I**

ADAPTABILITY

*C*he dinosaur became extinct because it could not adapt itself to changing conditions. The same is true of many famous firms.

Perfumers, more than any other class of merchant, must be sensitive to fashion currents — those dangerous forces which can utterly destroy, or — if properly handled — electrify sales.

A firm like Guerlain, which has steadily progressed for over a century, obviously possesses this sensitivity, this adaptability, to an extraordinary degree. Why don't you profit from it, too?



Guerlain
Established since 1828

LOVE ME, LOVE MY DOG-flea?

(CTENOCEPHALUS CANIS)

DOG FLEAS ARE APT to be ruinous pets for men and women like you. One may carry 20 embryo tapeworms, waiting their chance to involve you in endless trouble and expense. Eliminate this risk of worms—87% of tapeworm infections are due to dog fleas—and the other risks as well, simply by following the

COOPER HEALTH ROUTINE

1 TO PREVENT TAPEWORMS—Spend five minutes once a week dusting your dog's coat with Pulvex, to keep him free from fleas and all flea-borne parasites. A 6d. tin lasts several months.

NO FLEA CAN LIVE on a Pulvex'd dog within a week of your dusting him, which cuts out the flea risk. The risk is reduced to the minimum in C.V.R., which with its vitamins A, B, and D, builds up the dog's resistance to infection, and with its mineral salts, cures the want of certain excretions—the main cause of roundworm infection. Excessive excretion is an attempt to make up for the lack of these essentials. No normal diet can certainly provide all these vitamins, and the other vital factors scientifically combined in C.V.R. accordingly is indispensable.

PULVEX VERMIN POWDER | COOPER'S VITAMIN RATION | COOPER'S LIQUID WORM REMEDY

6d and 1/3 sprinkler tins | 1/6, 2/9, and 4/6 | Small dogs 1/3, larger dogs 2/6 bottles

FROM ALL CHEMISTS AND DOG SHOPS

COOPER, McDougall & Robertson Limited, Berkhamsted, Herts

2 TO PREVENT ROUNDWORMS—Spend thirty seconds once a day, sprinkling his main meal with Cooper's Vitamin Ration to give him vital elements he won't get any other way. A 1/6 tin lasts two months.

IF YOUR DOG HAS WORMS NOW, Cooper's Liquid Worm Remedy will rid him of the lot, roundworms and all, with as little distress and danger as may be. Then the Cooper Health Routine, faithfully followed, will prevent the need for repeated worming.

* This simple routine was devised and perfected by Cooper's own Research Bureau, which carries on the only research work done on these lines in this country. For any further information that will help you please write as fully as you can to the Dog Remedies Department.

DIRTY DOG FEEA! That's the proper comment, with the accent on the £, for you to make on this advertisement, reprinted now in miniature from the 'Tailwagger' etc. The Cooper Health Routine, which puts paid to this loathsome pest, can mean real money to you. Vet. counters in quite small shops are turning over a steady £5 per week. Have you got one? The Cooper Health Routine will give you a flying start and a dependable mainstay. Three sales in one and nine times the profit in the year.



PULVEX VERMIN POWDER

6d and 1/3 sprinkler tins

COOPER'S VITAMIN RATION

1/6, 2/9, and 4/6

COOPER'S LIQUID WORM REMEDY

Small dogs 1/3, larger dogs 2/6 bottles

TRADE TERMS—less 33½% and less 5% cash monthly

★ FREE INSURANCE PLAN to bring EXTRA & REGULAR SALES

All Dogs Conditioned with
GEORGE BELL'S
 Condition POWDERS

NOW
INSURED FREE against
 FATAL ACCIDENTS POLICY VALUE
 £3.3-0

Underwritten by the CANINE INSURANCE ASSOCIATION LTD.

You have
NO WORK
NO WORRY
NO WRITING
NO BOOKING
NO INTERFERENCE
 The Scheme is Simplicity Itself



Bell & Sons Ltd., now offer to every dog-owner—FREE—a £3.3.0 Insurance against all fatal accidents to their dog. All the customer must do is to register his dog at Bells and place an order with you for a 12-months' supply of George Bell's Condition Powders. To be used at the rate of TWO 6d. PACKETS per month.

**EVERY CUSTOMER WILL ORDER
 12 MONTHS' SUPPLY !**

Before long, you will have—if you have tied up with this campaign—practically every dog-owner in your district ordering a 12 months' supply.

**Full supplies of Sales - aids
 (leaflets, posters, etc.) now available**

Simply by tying up with the George Bell Condition Powder scheme, you can secure almost unlimited new customers—every one placing an order for 12 months' ahead! Regular sales are guaranteed, as the £3.3.0 Insurance offered to the customer only holds good as long as he continues to buy George Bell's Condition Powders.

This scheme will make George Bell's Condition Powders the most widely-discussed, most widely-purchased dog remedy in the country. Make sure you are ready with full stocks and sales-helps. SEND NOW for your requirements.

NOTE. This Insurance Scheme only applies to the British Isles.

STOCK and SELL

George Bell's Condition POWDERS

Backed by

THE SCHEME of the CENTURY

BELL & SONS LTD., Veterinary Chemists, SILVERDALE WORKS, LIVERPOOL, 13

WALDEN & CO., (NUFIX) LTD., NUFIX WORKS, ROOKERY WAY, LONDON, N.W.9

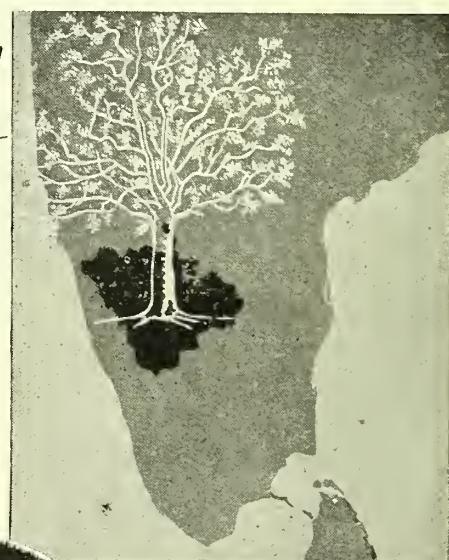
mysore The Traditional home of Sandalwood

Modern factories under expert government supervision allied to experience in the production of Sandalwood Oil have made Mysore famous throughout the world for this important perfume base. Mysore Sandalwood Oil contains a guaranteed minimum of 90% Santalol, is standard in quality and is acknowledged by experts to be the finest anywhere produced.

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THE TRADE COMMISSIONER FOR MYSORE IN LONDON

Grand Buildings, Trafalgar Square, London, W.C.2
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Ltd., 432 St Helen Street, Montreal.

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(London)

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JONES'

FINEST QUALITY

METHYLATED

SPIRIT

ALL STRENGTHS
IN STOCK.

PROMPT DELIVERIES IN CASKS,
DRUMS OR BY
TANK LORRY.

Send your enquiries to:—

JONES & CO. (Methylators) LTD., Bow, London, E.3

TELEPHONE: ADVANCE 3210.

TELEGRAMS: METHSPIRIT, LONDON."

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27-35 DUKE STREET, LIVERPOOL

TELEGRAPHIC ADDRESS:
"DRUGS"
LIVERPOOL

LABORATORIES:
12/18 CAMPBELL STREET,
AND 10 GRADWELL STREET

TELEPHONE:
NO. 6121
ROYAL

Enquiries invited for

DRUGS, GALENICALS, PILLS, TABLETS and CHEMICALS

also "CHEMISTS FRIENDS LINES"

Durkee's Asthma Cure

" Ointment

" Pills

Jaytee's Antiseptic Healing Ointment

" Chlorophyll Co. Tablets

" Conf. Senna

" Cream of Magnesia

" Huile d'Olive

• Water Glass at competitive prices
Ask for prices

Jaytee's Improved Lysol

" Liver Extract

" Liquid Glucose

" Syrup of Hypophosphites Compound
(Neutral Cloudy)

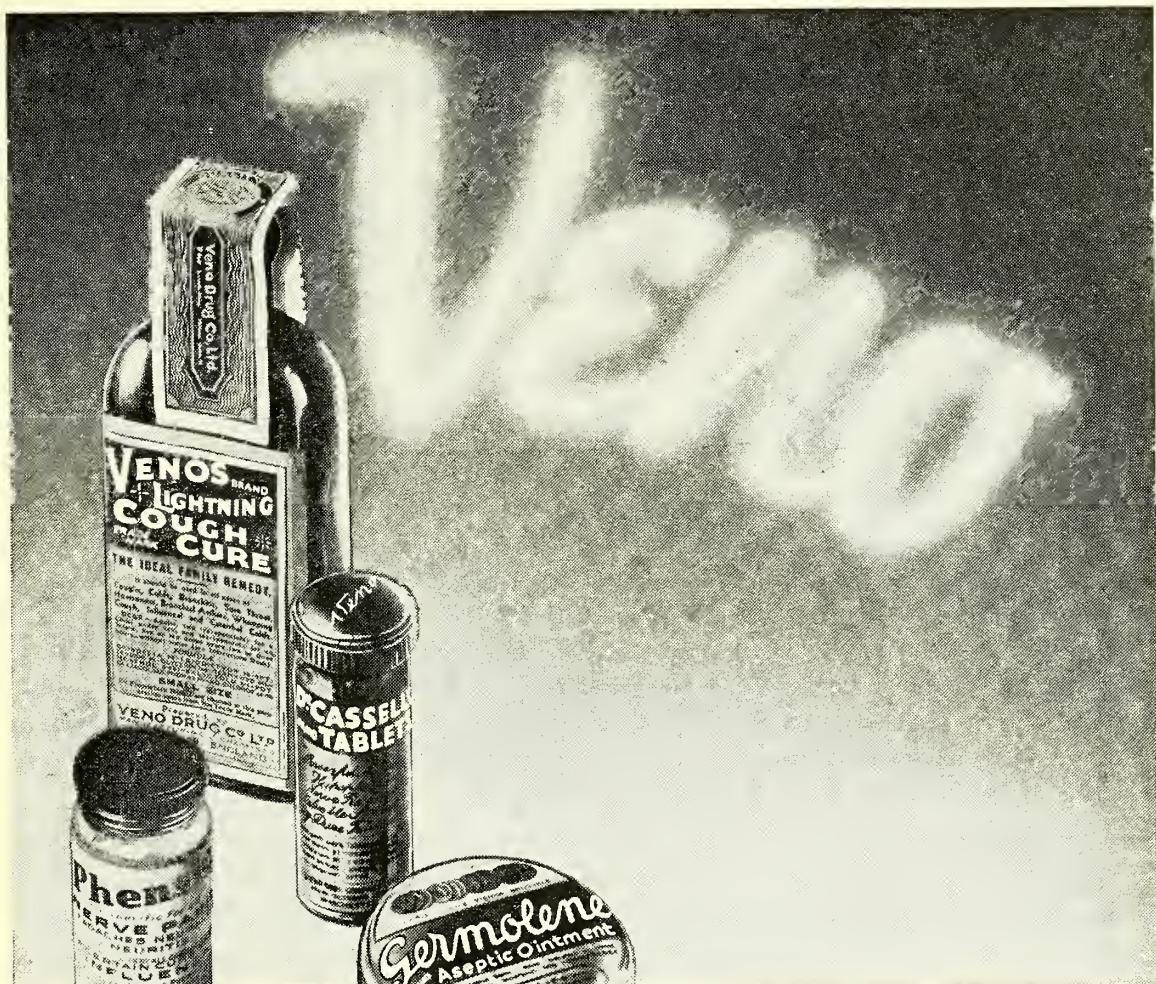
" Stomach Powder (Maclean's Formula)
and Tablets

" Poulticine" (Reg.)

Sands Green Herbal Ointment

Sands Liver Seeds

• All packed in attractive style



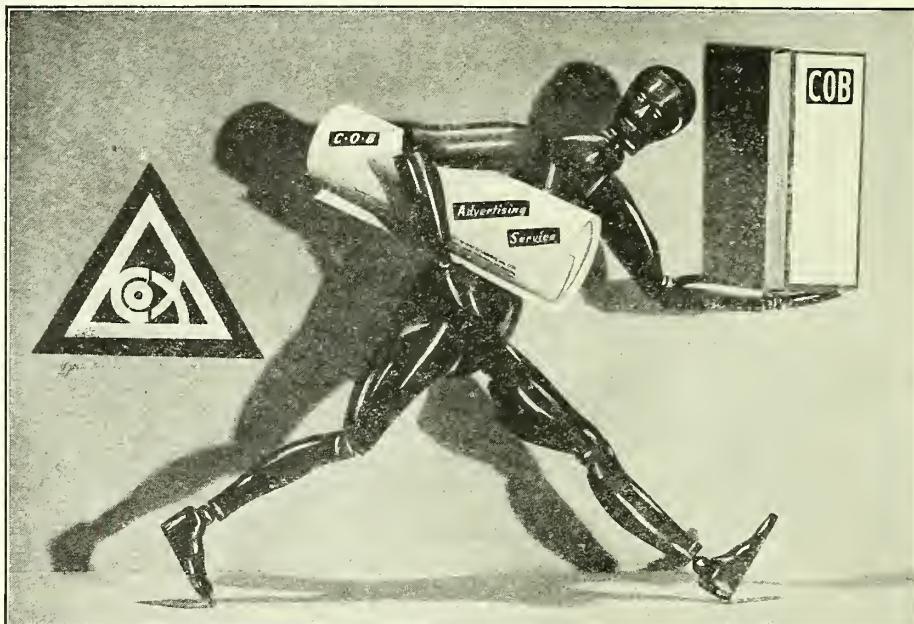
A buy-word of millions

Get a quick return for your money . . . invest in the Veno products. The four familiar Veno lines are instinctively asked for—trusted and tested for thirty years in millions of homes. Heavily advertised—quick selling—steady profitmakers . . . in fact, ideal lines for YOU to handle. New season's show material is waiting for a card from you.

- **VENOS COUGH CURE**
BRAND
- **Dr. CASSELLS TABLETS**
BRAND
- **GERMOLENE OINTMENT**
BRAND
- **PHENSCIC**
BRAND

VENO DRUG CO. LTD.
CHESTER ROAD • MANCHESTER • 16

KEEP A STEP IN FRONT WITH



C · O · B

The C.O.B. method of packing Pharmaceutical Products introduced over 5 years ago has evoked warm praise from hundreds of Pharmacists.

In conjunction with this scheme we have now introduced a comprehensive

ADVERTISING SERVICE

and Chemists who adopt the Chemist's Own Brand Scheme have at their disposal not only a smartly packed series, but a real force to meet competition, establish goodwill and foster repeat business.

CHEMISTS SAY —

1. "I feel considerably indebted to Messrs. Arthur H. Cox & Co. Ltd. for introducing the Chemist's Own Brand Scheme as its value to the individual Chemist is so obvious."
2. "Rather different from the old way of pushing a line for a year or two and then finding the same pack not very far away."
3. "I feel I must write and congratulate you on 'YOUR OWN BRAND SCHEME.' As you know I went in for it right at the start and I am very thankful that I did."
4. "I look upon the C.O.B. Scheme as the most valuable help which my business has had for many years. As you know, I am a full and enthusiastic supporter of the scheme."

Write for "C.O.B. BOOKLET"

ARTHUR H. COX & CO. LTD.

Manufacturing Chemists, BRIGHTON

Insure Your Customers Gratitude...



... IT WILL INCREASE YOUR TURNOVER !

The customers to whom you recommend a quality product will highly appreciate your business acumen. They will be satisfied and you will gain from the fact that they will come and ask your advice at every opportunity. To recommend goods bearing the D'ORSAY trade-mark, is to recommend an article of quality placed under the signs of Distinction and Elegance.

DO YOU KNOW THAT D'ORSAY FACE POWDER (DANDY-perfumed)—reference No. 36—ENJOYS GREAT PRESTIGE AMONG REFINED WOMEN ?

For the good reason, that in addition to its much appreciated perfume, this face-powder is of such an unusual texture that the chemists who perfected it, call it the "Atamized" powder. This face-powder is scientifically prepared and entirely manufactured at the D'ORSAY factory in the Château des Bouvets near Paris.

Whatever her complexion, every woman will be delighted with this face powder as she is sure to find the appropriate shade among these eleven tints : Blanche, Rachel, Rachel platine, Naturelle, Camélia, Rose, Ocre, Ocre rosée, Ivoire I, Ivoire II, Brun soleil.



To help you make their face-powder better known, D'ORSAY will be pleased to supply you with a most artistic window stand—it will make your window display attractive and will help sales.

SPECIAL OFFER : For a 3 dozen parcel we offer a trade discount of 40%, carriage paid and 2½% monthly a.c.

D'ORSAY, PARFUMEUR, 17, RUE DE LA PAIX, PARIS 54, GEORGE STREET (BAKER STREET) LONDON, W. 1

*In the
limelight*



BOTTLES OF QUALITY

THE INTERNATIONAL BOTTLE CO LTD

48, FORE STREET, LONDON. E.C.2

PHONE METROPOLITAN 6161

GRAMS. AUTREFOIS TELEX LONDON

HOLIDAYS WITH PAY

TO ENJOY THE FULL BENEFIT
OF A HOLIDAY COSTS MORE
THAN A WEEK'S WAGES

Encourage your employees to save for their holidays by means of a National Savings Club. Thousands of Employers are finding this method ideal for the purpose. It has the following advantages:—

- ① The Scheme is based on wide practical experience gained in the organising of such Clubs in all parts of the country, and is readily adaptable to all requirements.
- ② Safety is assured because all funds are banked in the Post Office Savings Bank or in a Trustee Savings Bank—and the scheme is perfectly simple to run.
- ③ The Club can be used if desired to deal with the Employers Holiday Pay Allowance.
- ④ Every assistance is given in starting the scheme and all the necessary stationery is supplied free.

Full particulars will gladly be given on request or, if preferred, a representative will be sent to discuss the best way of meeting the individual requirements of any firm.

Enquiries should be addressed to
NATIONAL SAVINGS COMMITTEE
(Dept. T.I.C.), LONDON, S.W.1

START A HOLIDAY CLUB FOR 1939 NOW



A DELICIOUS SWEETENED AND FLAVOURED JUNKET FOR THE SICKROOM AND TABLE.

ADD CONTENTS TO A PINT OF WARM MILK STIR GENTLY AND ALLOW TO COOL.

A PRODUCT TO CREATE SALES

Send for sample and details to :

THE
Armour Laboratories
(ARMOUR AND COMPANY LTD.)
ARMOUR HOUSE • ST. MARTINS LE GRAND • LONDON • E.C.1



your new factory

BUILT TO

YOUR REQUIREMENTS

with coal-tar

and lime on the spot

CAPITAL ASSISTANCE

WEST CUMBERLAND offers you the following exceptional advantages if you select it as a location for your new factory :

- Plentiful labour, skilled and unskilled, male, female and juvenile.
- In the centre of a coal producing area.
- Lime in abundance.
- Manganese and fluor spar deposits in the area.
- The softest water supply in the Kingdom — temporary hardness as low as 4°.
- Good transport facilities: strategically placed for the expanding northern market.
- Magnificent country — mild climate — sporting amenities.

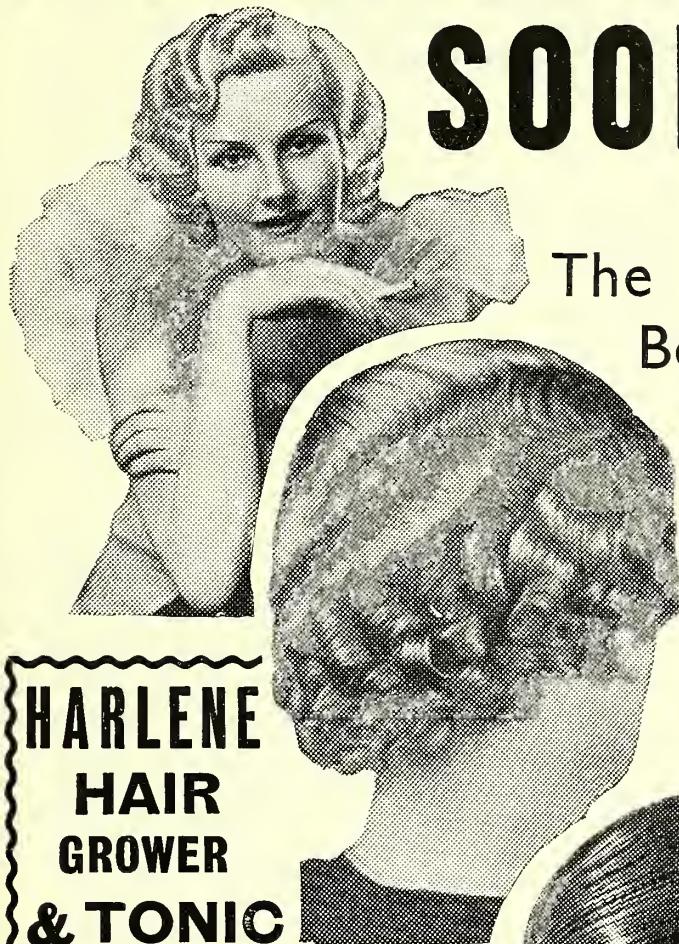
Add to these the unique facilities now offered by the Government : Your factory planned and built to your requirements, and rent only (on a non-profit basis) charged. Substantial assistance with capital. Contributions towards Rent, Rates, Income Tax and N.D.C.

THIS GOVERNMENT OFFER, unprecedented in the history of Industry, makes West Cumberland the logical site for your new factory. The advantages of West Cumberland are matters of hard business fact, and can be translated by your calculations into balance sheet terms. Fill data on which to base such calculations, and any other information required, may be obtained from The West Cumberland Industrial Development Co. Ltd., 1 Scotch Street, Whitehaven,

West Cumberland

EMPIRE EXHIBITION. Visit Stands Nos. 26 and 27 of The West Cumberland Industrial Development Company Ltd., and The Cumberland Development Council Ltd. in the Industries, Shipping and Travel Pavilion.

HARLENE SHELVES SOON EMPTY



The Finest Selling Hair
Beauty Preparations !

**HARLENE
HAIR
GROWER
& TONIC**

CREMEX SHAMPOO UZON BRILLIANTINE

HARLENE WAVE-SETTING LOTION

ASTOL HAIR COLOUR RESTORER

HARLENE CAMOMILE GOLDEN HAIR WASH

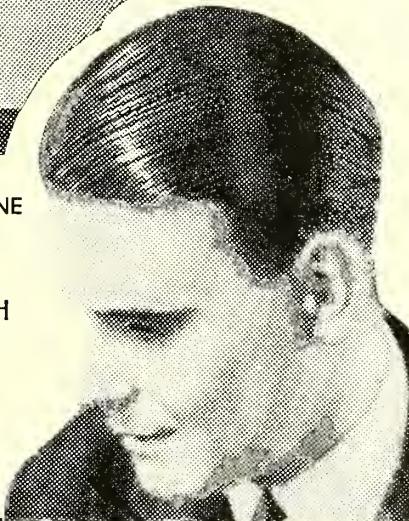
HARLENE CAMOMILE SHAMPOO

HARLENE GOLDEN WAVE-SET

HARLENE HAIR CREAM

HARLENE Soapless
Brushless SHAVING CREAM

HARLENE SCALP OINTMENT



HARLENE Shelves Soon Empty. That is because although the name "HARLENE" has been famous for over fifty years, its popularity with the Public continues to grow and GROW ! Stock the range of HARLENE Lines and let our bold and consistent advertising reflect in increased profits for you !

**SEND
YOUR
ORDER
TO-DAY**

EDWARDS HARLENE LTD.

20/26 Lamb's Conduit Street, London, W.C.1



Quick !!

GET YOUR PROSPECTUS

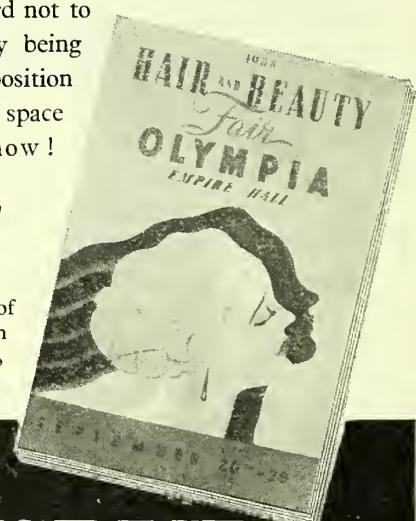
The biggest Hair and Beauty Fair in history ! Every single floor in Olympia's famous Empire Hall will be pressed into service for this year's wonder show, which already promises to set up a new record in size, importance and value. Opening day is September 20th —only 2 short months ahead ! Already the enquiries are pouring in—sites are being booked. The official prospectus, now ready, gives complete details of stand design plans and accommodation at the Fair. Write for your copy to-day.

BOOK YOUR STAND

An advertising campaign is being undertaken on such a scale that the organisers confidently expect thousands more visitors than ever before in the Fair's history. Trade buyers from all over the world will be at the Fair as well as many thousands of chemists—for nowhere else in the world is it possible to inspect such a large and comprehensive display of the latest ideas in perfumery, toilet and fancy goods. All the leading manufacturers and distributors will be represented. Can you afford not to exhibit ? Sites are already being booked. To ensure a good position you must reserve your space without delay. Do it now !

now ready

Write for prospectus and details of stands available to Exhibition Manager, 33 Great Queen St., London, W.C.2. Holborn 6515.



HAIR & BEAUTY FAIR

OLYMPIA SEPT. 20-29 EMPIRE HALL

Link up with this big OSLO SUMMER SALES DRIVE!



Refreshing Oslo Pine Bath Salts, like all Maclean lines, sell steadily all the year round—but with the warmer weather, the Oslo sales curve rises sharply. Macleans have again planned a summer sales drive for Oslo Pine Bath Salts, and these bigger sales bring profits of 33-1/3rd to 46% on turnover. Link up now with a window display.

REALLY BEAUTIFUL NEW SHOWCARDS

These striking showcards, each based on a figure study by one of the leading photographers of our day, will focus every eye on your window. It will pay you well to build an Oslo display round these real-life portrait studies.

BIG SAMPLING CAMPAIGNS !

Thousands of free samples will be distributed this summer, through popular periodicals. Macleans Oslo Pine Bath Salts has the approval of many leading beauty-writers, and will be recommended consistently throughout the summer months. All these efforts make new customers for you.

PRICES

Small, Retail 6d. (6 bath size)
1 dozen 4/-
Large, Retail 1/- (14 bath size)
1 dozen 8/-

Special terms to direct buyers



GENEROUS SAMPLES

Over the last two years widespread sampling campaigns, resulting in thousands of new customers, have increased Oslo sales. There is nothing so convincing as a personal test. Watch your sales go up this summer.

MACLEANS LIMITED,
GREAT WEST ROAD, BRENTFORD, MIDDLESEX

HOLIDAY NEWS

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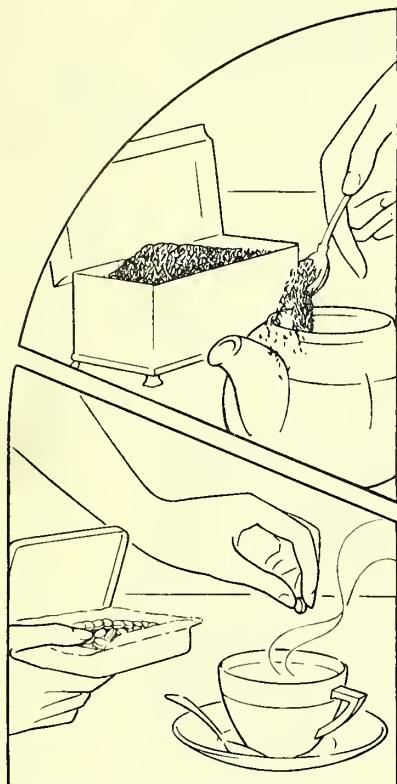
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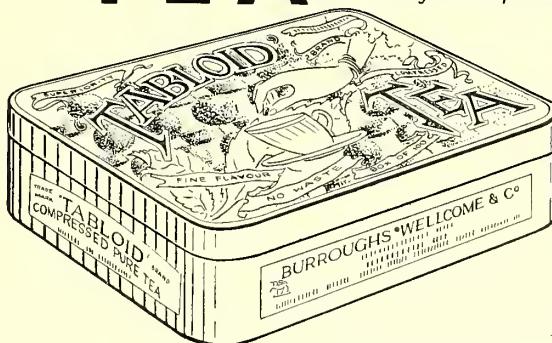
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The official organ of The Pharmaceutical Society of Ireland, The Pharmaceutical Society of Northern Ireland, The Chemists' and Druggists' Society of Ireland, and of other Chemists' Societies in Overseas Dominions

Published Weekly at

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Telegrams: "Chemicus, Strand, London" Telephone: Central 6565 (10 lines)

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News of the Week

Business Changes

TIMOTHY WHITES & TAYLORS, LTD., will shortly open a branch at Market Square, Stafford, and one at 2 Trellowarren Street, Camborne.

MR. JOHN H. PALMER, M.P.S., 252 Twyford Avenue, Portsmouth, has taken over the pharmacy of Kiffs Chemists, Ltd., 173A Francis Avenue, Southsea.

LONDON INSURANCE COMMITTEE are removing to temporary offices while their premises at Insurance Street are reconditioned. On and after July 21 all communications intended for the Committee should be addressed to Wilton House, 91 and 93 Shepperton Road, Islington, N.1. (Telephone, Clissold 1177.)

Key Industry Duty Notice

A representation has been made to the Board of Trade under Section 10 (5) of the Finance Act, 1926, for an Order exempting ORTHO-TOLYLHYDRAZINE from liability to duty under Part I of the Safeguarding of Industries Act, 1921. Any communication should be addressed to the Principal Assistant Secretary, Industries and Manufactures Department, Board of Trade, Great George Street, London, S.W.1, before July 27, 1938.

British Standards Institution

SPECIFICATION FOR AMPOULES.—The British Standards Institution has issued a British Standard for ampoules (B.S. No. 795). The specification is divided into five parts as follows:—(1) Flat-bottom straight neck ampoules; (2) round-bottom tapered neck ampoules; (3) flat-bottom constricted neck ampoules; (4) flat-bottom drawn-out neck ampoules; (5) flat-bottom sloping-shoulder open-ended ampoules. Each section gives the range of sizes, capacity of the bulb, dimensions and material from which the ampoule is to be made, the inscriptions to be marked on the ampoule, and the particulars in regard to the base and neck. There is also an Appendix giving the test for the limit of the alkalinity of the glass. Copies of this specification may be obtained from the British Standards Institution, 28 Victoria Street, London, S.W.1 (2s. 2d. post free).

Proprietary Articles Trade Association

ADDITION.—The Leyland & Birmingham Rubber Co., Ltd., Leyland Pillar moulded hot-water bottle, 2s. 1¹d., 2s. 4d.

ALTERATIONS.—Harriet Hubbard Ayer, Ltd., Luxuria cream, in jars, No. 8, 15s. 6d., 130s. doz. Face cream, in jars, No. 12, 24s., 16s. 9¹2d. each. Face cream, in jars, No. 13, 38s., 26s. 7d. each. Skin and Tissue cream, No. 17, 24s., 16s. 9¹2d. each. Skin and Tissue cream, No. 18, 38s., 26s. 7d. each. Lemon cream, No. 26, 8s. 3d., 81s. 3d. doz. Cream cleansing soap, No. 206, 2s. 6d., 21s. doz. The Leyland & Birmingham

Rubber Co., Ltd., Pharmal moulded hot-water bottles, 2s. 1¹d., 2s. 4d. doz. Pond's Extract Company, Ltd., Princess Marguerite all-purpose cream, formerly listed under Theron Laboratories, Ltd., will now be distributed by Messrs. Pond's. No change will be made in the existing prices and terms. Princess Marguerite face powder retailing at 6d. has been introduced, and a 1s. 3d. size of Pond's skin freshener will shortly be marketed. The prices of these will be identical to those already in operation for other lines.

DELETIONS.—Boncilla Laboratories, Ltd. (agents: J. C. Gambles & Co., Ltd.), Boncilla beautifier, 2s. 6d. size tube only. Boncilla Pack O'Beauty. G. B. Clarke, Woburn Sands, Beds, Clarke's carbolised wheat protector. Domo Remedies, Ltd., Domolene ointment and wool.

University Successes

The following candidates have been successful in the recent B.Pharm. examination of the University of London:—

External Students.—Abbott, Eileen M.; Bannister, Ronald; Capper, Kenneth R.; Clapham, Percy C. H. V.; Daglish, Cyril; Dewey, John R.; Humphries, Geoffrey R.; Jarrett, Derek E.; Matthews, Elton R.; Oliver, Frederick H.; Rayner-Smith, Enid; Small, John J.; Sparrow, Walter; Timmington, Herbert; Watt, James G.; Westlake, Herbert G.

Internal Students.—Agrawala, Chandra P.; Allnutt, Albert G.; Davies, Elizabeth E.; Fairlee, James; Patterson, Gerald F.; Sage, Colin H.; Siller, Kurt; West, Geoffrey B.; Williams, Hazel.

London

PHARMACEUTICAL EMPLOYEES' MEETING.—A meeting of the Association of Pharmaceutical Employees (London Section) will be held on July 19 at 9 p.m. at 17 Bloomsbury Square. Attendance will be given from 8.30 p.m. for payment of contributions and enrolment of new members.

ELECTION OF OFFICERS.—The officers of the Western Pharmacists' Association for the forthcoming session are as follows:—President, Mr. H. C. E. Glover; Vice-President, Mr. D. R. Evans; Treasurer, Mr. W. E. D. Shirtliff; General Secretary, Mr. Clifford Evans; Assistant Secretary, Mr. W. T. Pratt; Social Secretary, Mr. Frank Noble.

COSMETIC DEMONSTRATION.—At a display of summer cosmetic preparations held by Messrs. Leichner, 89 Regent Street, London, W.1, on July 12-15, a novel demonstration was given of the application of make-up for use on holiday for protection against the effects of the sun, wind and sea. One of Messrs. Leichner's beauty experts demonstrated different treatments of the skin in an appropriate atmosphere created by

CONTENTS

See p. 59

models of varied colourings attired in beach wear and swim suits.

GOLF.—The summer meeting of the London Chemists' Golfing Society was held, on July 7, at Old Fold Manor Golf Club for the prize presented by the president, Mr. W. Bennett. Thirty-nine entered for this competition, also for the Arthur H. Cox Prize and the Paramount Prize (Stapleford System), the leading scores being:—

President's	Arthur H. Cox
R. W. Poole .. 83- 9=74	H. Warburton .. 87-11=76
C. Maile .. 85-10=75	H. Nightingale .. 92-14=78
H. Warburton .. 87-11=76	G. Hankinson .. 84- 6=78
R. N. Hood .. 90-14=76	W. H. Usher .. 94-16=78
H. Smith .. 89-12=77	G. C. Gibson .. 100-18=82
L. J. Morson .. 85- 8=77	

Paramount

W. Bennett 33.75
C. Maile 33.5
G. Hankinson 33.5
H. Warburton 33.25
R. N. Hood 32.5
H. Harrison 32.5

At the close of the competitions the president entertained the members to supper in the club house.

The second Sunday meeting took place at Farnham Golf Club on July 10. Two competitions were held, the Sanger Cup and the prize offered by D. & W. Gibbs. The leading scores were:—

Sanger Cup (Medal)	D. & W. Gibbs Prize (Bogey)
G. P. Crang .. 84-12=72	A. de Vere Wells (5) .. 3 Down
A. de Vere Wells .. 80- 5=75	W. H. Usher (16) .. 3 Down
A. Barnetson .. 76-sc.=76	A. Barnetson (scratch) 3 Down
H. Smith .. 89-12=77	

The medal score returned by G. P. Crang won the Sanger Cup and A. de Vere won the D. & W. Gibbs prize on last six holes.

Miscellaneous

THEFT OF CAMERAS.—The premises of Wands, Ltd., Belvoir Street, Leicester, were the scene of a smash-and-grab raid on July 7. A number of cameras were stolen.

BURGLARY.—The premises of Boots, Ltd., Broad Street, Reading, were broken into recently and a quantity of the stock stolen.

WINDOW SMASH.—During the recent gale a blind outside the premises of Boots, Ltd., Charminster Road, Bournemouth, was blown down, and, in falling smashed two plate-glass windows—one in front and the other at the side of the pharmacy.

CLINIC TRADING.—Birkenhead Chamber of Commerce discussed alleged trading in invalid foods and medicines at clinics and welfare centres at a recent meeting. One member suggested that the local authority should issue vouchers redeemable at a special retail and ratepaying trader's establishment; he alleged that certain people had been able to accumulate stocks to sell to others. If vouchers were issued they would be less anxious to do that. On the suggestion of the chairman, Mr. Higgins, the member who raised the matter, agreed to approach the local medical officers of health.

Irish Notes

Miscellaneous

BEREAVEMENT.—Sir Thomas Robinson, M.C.P.S.I., has recently been bereaved by the death of his sister, Miss C. E. Robinson, which took place in Dublin.

OPHTHALMIC DIPLOMA.—Dr. John J. Mackey, L.R.C.S. and P., I., Ph.C., 81 Upper George's Street, Dun Laoghaire (a member of and examiner to the Pharmaceutical Society of Ireland), has been awarded the Diploma in Ophthalmic Medicine and Surgery of the Royal College of Surgeons. He is the only practising medical man in Eire to hold this specialist qualification, which was instituted some three years ago. Only two other Irish doctors have gained the qualification.

MEDICAL QUALIFICATION.—Miss Ellen Murphy and Miss Josephine Carmel Murphy, the youngest sisters of Mr. Harry Murphy, M.P.S.I., Medical Hall, Macroom, co. Cork, have passed their final examination for the degrees M.B., B.Ch. and B.A.O., Miss Ellen Murphy securing second-class honours.

In addition to Mr. Harry Murphy, two sisters qualified chemists are Mrs. Sheila Kingston, The Pharmacy, Drimoleague, co. Cork, and Mrs. Elizabeth M. Mahoney, wife of Dr. Mahoney, Johnstown House, Kilmichael, co. Cork.

THE REV. R. C. ACHESON, who is now a Presbyterian minister in Vancouver and is at present on a visit to Northern Ireland, was, prior to leaving Belfast twenty-five years ago, in business in Cromac Street with his brother, Dr. S. E. A. Acheson, member of the Council of the Pharmaceutical Society of Northern Ireland.



DR. J. J. MACKEY

Scottish Notes

Edinburgh

GOLF.—The annual bogey competition of the Edinburgh Chemists' Golf Club for the David Brown medal was played over Prestonfield course on July 6, with the following results: (1) W. J. Rosie (one down); (2) (a tie) J. Finlay and D. N. L. Philp (four down).

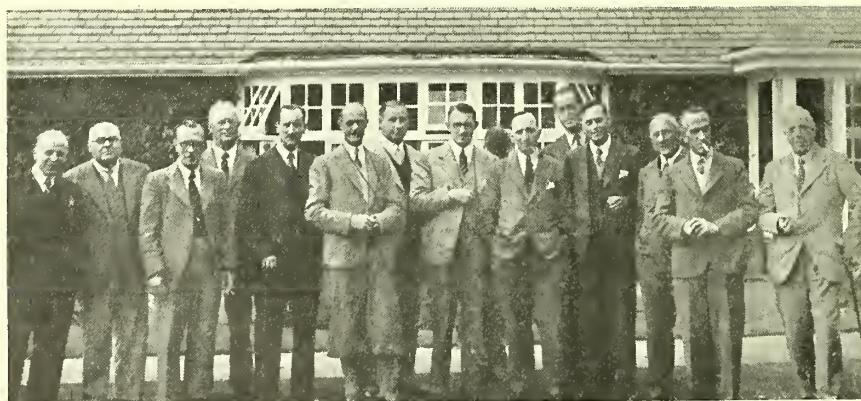
SANITARY INSPECTORS' CONFERENCE.—The fifty-first annual conference of the Sanitary Inspectors' Association will take place in Edinburgh from September 5-10. Meetings will be held in the Usher Hall, Lothian Road, and will be presided over by Sir Leonard Hill. Among the discussions provisionally arranged for during the conference is "Food and Drugs Legislation," introduced by Mr. Harold T. Perry. Preliminary programmes have been issued, and may be obtained from the secretary of the Association, 19 Grosvenor Place, London, S.W.1.

Miscellaneous

MR. WILLIAM J. GORDON, M.P.S., has commenced business at 32 Friar's Vennel, Dumfries.

MR. JOHN P. DAVIDSON, M.P.S., Coupar Angus, has been appointed a member of the Perthshire Insurance Committee.

JOHN PATON & CO., have acquired the business of the late Mr. Alexander A. Dick, chemist and druggist, Main Street, Bellshill.



A GROUP OF LONDON CHEMIST-GOLFERS AT OLD FORD MANOR

Parliamentary News

NARCOTIC DRUGS

Mr. Butler, on July 7, in reply to a question by Mr. David Adams regarding statistics showing the extent to which Japan is producing and distributing opium and other narcotics in the Far East, said:—Like other countries parties to the Opium Convention of 1925, Japan regularly communicates to the Secretariat of the League of Nations statistics of the drugs which she manufactures, as well as of her exports to and imports from other countries. It is, however, very unlikely that the League of Nations authorities possess any comprehensive or reliable information as to the distribution of Japanese exported drugs inside the national boundaries of the importing countries.

METHALLYL CHLORIDE AS AN INSECTICIDE

The Minister of Agriculture was questioned on July 11 regarding a method of destroying insects by methallyl chloride. Mr. Morrison stated that attention had been drawn to the experiments carried out by a Dutch laboratory and that full results would shortly be published. He was not aware that any experiments with this material for agricultural or horticultural purposes had been carried out in this country. (*See C. & D.*, July 2, 1938, p. 15.)

VACCINATION

The Minister of Health was asked, on July 12, whether he has considered any further representations in regard to the abolition of compulsory vaccination. Mr. Elliot, replying,

said that he was unable at the present time to give any undertaking regarding the introduction of this legislation on the subject of vaccination. This matter was also raised on July 11 by Mr. Leach in regard to the vaccination of passengers by steamer from Bombay to English ports. Mr. Leach suggested there was no longer any real need for these regulations, because vaccination is now more dangerous than smallpox.

Lieut.-Colonel Muirhead: I think the regulations are brought in for the convenience of persons leaving India who might be going to countries which have an import regulation against it. It is, therefore, convenient to have these regulations, and it is thought best to make them of general application.

Mr. Leach: How can vaccination be a convenience to anybody?

DIPHTHERIA IMMUNISATION

Sir T. Moore asked the Secretary of State for Scotland, on July 12, what assistance is given by his Department towards giving injections to school children to immunise them against diphtheria; and whether progress in this matter can be accelerated?

Mr. Colville: A number of local authorities have proceeded with the formulation of schemes for securing such immunisation, and the Department's Medical Officers have co-operated with medical officers of health to that end.

Mr. Leach: Will the right hon. gentleman kindly note that these injections are both dangerous and unreliable?

Mr. Colville: That is a matter of opinion.

Topical Reflections

By Xrayser

Publicity, Internal and External

Publicity for pharmacy in the world at large is a good policy and a policy susceptible of further development; but we also need more publicity among ourselves, and I am inclined to think that well-based publicity begins at home. Otherwise, there may come a time when readers of the lay Press know more about our public policy, or about some phases of it, than we do. I am reminded of this danger by comparing two six-line paragraphs in your issue of July 9. In the report of the National Pharmaceutical Executive deliberations (p. 28) one reads that at a meeting of the Joint Committee of the Pharmaceutical Society and the N.P.U. the subjects discussed included: (a) Prosecutions under the Pharmacy Acts, (b) medicine-stamp duty, (c) report of Retail Distributive Trades Conference and (d) air-raid precautions and chemists. In the report of the Pharmaceutical Society's Council meeting I find a paragraph in almost identical words but with the order of the subjects transposed to (c), (d), (b), (a). The reason or reasons for this variation in order of announcement is, as far as I am concerned, unknown; but it hardly needs to be pointed out that some of these topics raise important constitutional issues. I can well believe that as regards (a) and (b) it would not be wise to disclose much for hostile scrutiny at the moment: I see no cause, however, for the similar treatment of the other two subjects. I may be told, of course, that I ought to attend every business meeting of chemists within reasonable distance, and that then there would come a day when the chief speaker would suddenly request the reporters to put away their notebooks and would unburden himself (or herself) of many weighty secrets. But this, in plain language, is not good enough. Even if I, and others of your readers who are in like case, could attend every such business meeting we should still need the publicity which only your impartial columns afford.

Ethics in Business

One way in which ethics impinge upon business is indicated in your first editorial article on page 37, dealing with a letter circulated by the Council of the Proprietary Articles Trade Association, a letter designed, I gather, to reinforce the Council's previous statement quoted by you on the same page. The problem of the individual manufacturer or man-

facturing house in formulating a sales policy is relatively simple and need not be referred to here. What is to be the attitude of the retailer? Does he already, in numerous instances, "give a full measure of display and co-operation to . . . non-P.A.T.A. manufacturers?" One can only suppose that in this matter ethics and business considerations point in the same direction, and that if the retailer values the Chemists' Friends scheme and the P.A.T.A. he will do nothing detrimental to their regular functioning. The winding-up of the scheme and of the Association would, it seems to me, involve a return to the conditions of the jungle which prevailed in retail business prior to 1896; and it would at best take some time to inaugurate a new scheme of orderly trading. When the British Pharmaceutical Council meets in Edinburgh two months hence we are to learn more about pharmaceutical ethics.

Commissioned Rank in the Army

Are we any nearer the securing of commissioned rank for pharmacists in the Army? After reading the paragraph on p. 31 recording the sending of a letter to the War Office—a good example of the pachydermatous type of Government department—I looked through several of the "Experiences of the Great War" published by you in 1919 and the early part of 1920. The cheerful spirit in which, without exception, the writers of these "slices of life" relate some of their adventures does not, for the reflective reader, obscure the impression of the deplorable waste of skill evidenced in setting pharmacists to clean cooking utensils and perform other duties of a similar kind. This impression becomes stronger when one thinks of various young men one knew who, possessing no intrinsic claim, were given commissions in one of the Forces on leaving school. Is this disparity to continue indefinitely? I suggest that the determination of organised pharmacy to make all offers of service in any of the Forces contingent on the granting of commissioned rank be made clear in the most formal manner to the authorities concerned. I may perhaps add that letters of the class referred to on p. 31, if issued from the office of the General Medical Council when the Council is not in session, are sent by direction of the president, which seems to be the most regular method.

Legal Reports

Dangerous Drugs Act Case.—At the South Western Police Court, London, on July 7, Miss Florence Durrans, M.P.S., Wandsworth, S.W.18, was summoned for failing to keep a proper register in respect of certain transactions relating to dangerous drugs at her pharmacy. The prosecution stated that the offence had not been caused intentionally, but through negligence. The summons was dismissed on the payment of costs.

Pharmacy Act Cases.—At Bath, on July 8, Reliance Trading & Manufacturing Corporation, Ltd., were charged with unlawfully using the title "chemists" in connexion with their business. Prosecuting, Mr. E. McMamus, for the Pharmaceutical Society, said when the defendants' premises were visited by one of the Society's inspectors he found in the window a large showcard bearing the drawing of a cowboy and the wording "Manufacturing chemists and qualified herbalists." The inspector pointed out to the manager that they had no right to use the description "Manufacturing chemists," and he found that there was no pharmacist in the building. For the defendants it was stated that the goods largely displayed in the window were made by a firm of manufacturing chemists, and it was to these goods that the showcards applied. The charge was dismissed.

Fines were imposed at Biggleswade Police Court, on July 6, on three shopkeepers for contravening the Pharmacy and Poisons Act, 1933. Thomas George Brown, Potton, was charged with contravention of the Act by selling poison (ammonia) included in Part II of the Poisons List at Potton on May 16. He was also charged with failing to label the container of the poison in the prescribed manner. Defendant pleaded "Guilty" in each case and was fined 10s. on each summons, with 15s. costs. William Jakes, Potton, was also charged with selling poison (ammonia) included in Part II of the Poisons List at Potton on May 16. He also pleaded "Guilty" and was fined 10s., with 15s. costs. George Edwin Cox, Wrestlingworth, was charged with a similar offence at Wrestlingworth on May 13 and was fined a similar sum and costs.

At Tottenham, London, recently, E. E. Ashton was charged with selling nicotine contained in a dusting powder in a container not properly labelled, and for supplying it without making an entry of the sale in a book kept for the purpose prior to delivery. He was also summoned for not storing the poison in a place reserved solely for the storage of poisons. The summonses were dismissed on the payment of costs.

At Ormskirk Police Court, on July 1, James Aspinwall, Skelmersdale, was fined £1 for selling a proprietary article containing poison in a container not correctly labelled and also with being an unauthorised person selling a poison.

At Nailsworth, Gloucestershire, on July 6, Mrs. C. J. Viner, Minchinhampton, was prosecuted for the unlawful sale of tablets containing ephedrine. The summons was dismissed on the payment of costs.

At Banbury Borough Court, recently, John L. Robins and George F. Robins, Banbury, were fined £1 for permitting sanitary fluid containing poison to be sold by an unauthorised person on June 1.

At Newton Abbot, on June 28, Stuart R. McEldon was fined £1 for having sold a bottle of disinfectant containing a poison.

Pharmacy Act (Ireland) Prosecution.—At the Kells District Court, on July 12, before District Justice Beattie, J. C. Cooney & Sons, merchants, Kells, were summoned at the instance of the Pharmaceutical Society of Ireland, first with a breach of Section 30 of the Pharmacy Acts, by keeping open shop for the sale of poisons, and secondly with a breach of Section 2 of the Sale of Poisons Act, by selling poison, namely, sheep dip containing arsenic, in a packet which had not the name and address of the seller. Mr. John J. Gaynor, solicitor, who appeared for the Pharmaceutical Society of Ireland, told the Court that a person holding a County Council licence to sell poison was not protected unless they kept the regulations. Once they failed to keep the regulations they became liable

to penalties under Section 30 of the Pharmacy Act for illegally keeping open shop for the sale of poison. Mr. Sweetman, solicitor, pleaded guilty on behalf of the defendants. The District Justice said there was carelessness shown by the defendants in the sale of the poison. He applied the Probation Act on the summons for breach of the Pharmacy Act. In the second summons he imposed a fine of 5s. with £7 7s. expenses and £2 2s. costs payable to the Pharmaceutical Society.

Alleged Intent to Defraud.—At Greenwich Police Court, London, on July 11, before Mr. Frank J. Powell, Mark Posener, 74 Inchmory Road, Catford, S.E., was summoned by the County Chemical Co., that he did "with intent to defraud, obtain the sum of 9d. from Frank Reginald Allcorn by falsely pretending that the contents of a certain bottle was genuine Brylcreem." Defendant pleaded not guilty. In opening the case for the prosecution, Mr. Maude said the man described himself as a medicinal man, and what he had been doing was selling articles from a tray. By means of a skilful talk, or huckster's talk, he would lead up to the subject he wanted to introduce, and then say, "anyone want Brylcreem," and then produce a bottle. A few moments after it was sold he would wrap it up in a brown paper parcel, and the purchaser would subsequently find that he or she had not purchased Brylcreem at all. Brylcreem was made by the County Perfumery Co. Mr. Frank Allcorn, 72 The Avenue, West Wickham, was then called and said he was a traveller for the County Perfumery Co., the makers of Brylcreem. On instructions from his superiors, he attended at Catford Market on May 28, when he saw the defendant selling various articles. Later the defendant said, "anybody wanting Brylcreem." He brought out an extra large bottle and said, "this week my price is 9d." It was labelled, wrapped up quickly in paper, and passed to the customer. Anyone not familiar with the product would not know that they had not got Brylcreem. It was labelled "Modern Hair Cream." On June 10 he went again with two others, and Posener, the defendant, was there at a stall, selling as before described. Posener brought out a box and asked if anyone wanted Brylcreem, and he said, "I'll have a bottle of Brylcreem." It was wrapped and handed to him, but he opened it up and then said, "This is not Brylcreem." Posener at once retorted, "This is genuine Brylcreem, I guarantee this is genuine Brylcreem." Posener was selling from a box, and on opening this box he found some with labels, and some without. He excused those without by saying, "The firm have got the wind up, they are sending some without labels now, so that they cannot be traced."

In cross-examination, he said he did not see any bottles of Brylcreem on the stall, or on the shelves of the stall. Posener was doing all the talking, and he did not say that Brylcreem was sold at 1s. a bottle, but his cream was 9d. He referred to it the whole time as Brylcreem.

Edward Baker, Forest Hill, a chemist's assistant, said he was present on the occasion referred to. He heard the defendant say he would pay £10 to any hospital if it could be proved that it was not genuine Brylcreem. He bought a bottle, and it was labelled Modern Hair Cream. The summons was adjourned.

Gazette

Partnership Dissolved

HADFIELD, J., and BUTLIN, C. P., chemists and druggists, 113 Uppingham Road, Leicester, under the style of Hadfield & Co.

OVERLOADING OF TRADE BICYCLES.—The suggestion that in many cases errand boys were carrying too much weight on the front wheels or handlebars of the bicycles to be safe was made by the Chief Constable of Preston at a meeting of the North Lancashire Federation of Safety First Councils at Preston recently. The Chief Constable of Blackpool stressed the danger caused by errand boys cycling with a basket on one arm, obviously throwing the machine out of balance.

Company News

P.C. means Private Company and R.O. Registered Office

DICK & BENNETT, LTD. (P.C.)—Capital £100. Objects: To carry on the business of chemists, druggists, etc. The first directors are to be appointed. Solicitors: Stanley Jarrett & Co., 17 Shaftesbury Avenue, W.1.

PHYL HARRIS (GREASE PAINTS), LTD. (P.C.)—Capital £100. Objects: To carry on the business of chemists, druggists, manufacturers of and dealers in artists' make-up, etc. Solicitors: Elwell & Binford Hole, 65 Coleman Street, E.C.2.

FARMERS' CHEMISTS, LTD. (P.C.)—Capital £1,000. Objects: To carry on the business of manufacturing chemists and druggists, perfumers, etc. The first directors are not named. Solicitor: George R. Cran, 5 King's Bench Walk, E.C.4.

VACUUM-SCIENCE PRODUCTS, LTD. (P.C.)—Capital £2,500. Objects: To carry on the business of dealers in chemical products and by-products, etc. Percy J. R. Tapp, 40 Rushnell Road, S.W.17, director. R.O.: 166 Weir Road, Balham, S.W.12.

CIOBA & CO., LTD. (P.C.)—Capital £1,000. Objects: To carry on the business of chemists, druggists, to manufacture and deal in Cioba Herbal Fruit Tablets, etc. The first directors are not named. R.O.: 200 Gresham House, Old Broad Street, E.C.2.

MANEX PREPARATIONS, LTD. (P.C.)—Capital £100. Objects: To carry on the business of manufacturers of and dealers in pharmaceutical preparations, patent medicines, toilet preparations, etc. The first directors are to be appointed. R.O.: Moor Lane, Salford.

OULTON ROAD PHARMACY (1938), LTD. (P.C.)—Capital £100. Objects: To carry on the business of wholesale and retail chemists, druggists, etc. Joseph Downing, senr., 17 Meaford Avenue, Stone, Staffs, director. R.O.: 25 Oulton Road, Stone, Staffs.

CHROMOL, LTD. (P.C.)—Capital £200. Objects: To carry on the business of manufacturers and merchants of polishes of all kinds, paints, cellulose, size, oils, colours, wax, etc. David Shuttleworth, 56 Redburn Drive, Shipley, director. R.O.: 12 Drake Street, Bradford.

BRIDGEWATER CHEMICALS, LTD. (P.C.)—Capital £3,000. Objects: To carry on the business of manufacturers of and dealers in chemicals, drugs, medicines, etc. Joseph W. Hewitt, 114 Liverpool Road, Patricroft, Manchester, director. R.O.: 6 Brown Street, Manchester, 2.

STALKERS DRUG STORES (1938), LTD. (P.C.)—Capital £200. Objects: To acquire the business of a proprietor of a drug stores and the like heretofore carried on by Stalkers Drug Stores, Ltd., at 1 West Brampton, Newcastle-under-Lyme, Staffs. The first directors are to be appointed.

FAIRBAIRN'S PHARMACIES, LTD. (P.C.)—Capital £7,000. Objects: To carry on the business of chemists, herbalists, drug merchants and dealers, patent medicine dealers, etc. The first directors are to be appointed. Solicitors: F. Lindsay, Elsworth & McArthur, 13 Harrington Street, Liverpool.

NEW DETERGENTS, LTD. (P.C.)—Capital £100. Objects: To carry on the business of manufacturers of and dealers in soap, perfumes, powders, chemicals, drugs, toilet requisites, etc. The first directors are to be appointed. Solicitors: Nicholson, Graham & Jones, 19-21 Moorgate, E.C.2.

A. J. BARBER (CHEMIST), LTD. (P.C.)—Capital £100. Objects: To acquire the business of a chemist and druggist carried on by A. J. Barber at 32 St. James Street, New Bradwell, Bucks, as "A. J. Barber." Mrs. Aureola M. Barber, 32 St. James Street, New Bradwell, Bucks, director.

BEECHAMS PILLS, LTD., AND MACLEANS, LTD.—Negotiations have been completed whereby Beechams Pills, Ltd., have agreed to purchase 3,400,000 5s. ordinary shares (being the entire ordinary share capital) of Macleans, Ltd. Beechams Pills, Ltd., will hold these Maclean shares through a new holding company

which is being created for the purpose, and 1,500,000 redeemable preference shares of £1 each in this new company will be offered to the public for subscription during the present month. All the ordinary shares in the new company will be retained by Beechams Pills, Ltd. As a result of this deal the Beechams company, whose chairman is Mr. Philip E. Hill, will add the wide range of branded proprietary and pharmaceutical products marketed by Macleans to its already comprehensive list of other products. We are further authorised to state that the directors of Beechams Pills, Ltd., have prepared a scheme which they will place before the shareholders in September whereby Beechams deferred shares will be marketable in a more convenient form for small investors.

SANGERS, LTD.—The ninth annual general meeting of shareholders was held in London on July 6. Mr. Frederick J. Smith (chairman and managing director) presided. After reviewing the accounts for the year ended March 31, 1938 (C. & D., July 2, p. 6), the chairman, in the course of his speech, said: The ordinary dividend was increased from 22½ per cent. in 1935 to 25 per cent. in 1936, and this was paid again in 1937. This year, besides a total charge of nearly £11,000 for N.D.C. there are an additional 251,000 shares to provide for, 216,000 of which were issued to shareholders on bonus terms last year. Your directors, therefore, feel that in suggesting a repetition of 25 per cent. dividend, they are making a proposal which will be very satisfactory to the members, particularly in view of the larger number of shares held on which the dividend is to be paid. In addition, the directors are proposing to make a special distribution to the ordinary shareholders, in connexion with the profit realised on the sale of shares in an associated company, of the £14,750 already mentioned. This distribution will be at the rate of 1.479d. per share, or 2.44 per cent. on all the ordinary shares, and will be paid free of all income-tax, and is not liable to same. These recommendations, if adopted, will leave a balance to be carried forward of £141,792 10s. 10d., as against £119,529 last year, an increase of £22,263. As I pointed out last year, since the incorporation of our company in January, 1929, our progress has been steadily sustained. Our capital has increased from £500,000 to the present figure, and our dividend has steadily progressed from an initial 17½ per cent. to 25 per cent. to-day, not to mention the issue on bonus terms last year, and the special distribution now suggested. The policy of your board has justified itself, and the subsidiary companies have each been able to make their individual contribution towards the total profits realised by your company. Your directors see no reason to suppose that this satisfactory position will not be maintained. I would like to take this opportunity of expressing to my colleagues on the board, and to the secretary, my personal appreciation of all the loyal co-operation they have displayed during the past year, and always, in the interests of the company, and they, I am sure, would join with me in asking that in receiving this report you would endorse their thanks to all managers and members of staffs in and associated with your company for all the help they have given to bring the year to a successful conclusion. It is proposed to ask your approval for the conversion of the share capital into stock units. This alteration conforms with modern practice and tends to simplify the work of the secretarial department, without in any way affecting the rights of shareholders. I therefore have to propose: "That the report and accounts of the directors for the year ended March 31, 1938, be approved and adopted." I have also to ask the approval of the shareholders to the allocation of £2,000 to the staff benefit fund. Mr. John Sanger seconded the resolution and it was unanimously adopted. On the motion of the Chairman, seconded by Mr. A. T. Webb, J.P., the necessary resolution for the conversion of the share capital into stock units was adopted. Mr. Henry Sanger, the retiring director, was re-elected. Mr. Harris, in moving a vote of thanks to the chairman and directors, said that he thought that the strong position of the company from an investment point of view ought to be more generally known. The motion was seconded and accorded with acclamation, and after the Chairman had acknowledged the compliment the proceedings terminated.

Toilet Displays in the American Manner



Above are illustrated two typical window shows of toilet preparations in the store of Mandel Bros., Chicago, U.S.A. The spaciousness of the windows is characteristic of U.S. shopfitting methods, yet the long, shallow window is not unknown in chemists' shops in this country. The background, lighting and arrangement of stock are an object lesson in utilising a space that many find difficult to fill.

Holiday-time Window Displays

TOPICALITY in display may link up with some seasonal appeal, with regular events, such as sporting fixtures, a "nine-days' wonder" like quads or, better still, with some local event. An ideal subject for topical display at this time of the year is holidays and travel. Apart from the seasonal aspect, added interest has recently been aroused in this subject by articles and reports in the Press dealing with popular demands for paid holidays for the workers. Cruising, introduced some years ago as a means of keeping liners in profitable use, is now an established enterprise in the shipping industry. There is no reason why the chemist should leave it to departmental stores to turn to account this aspect of modern life.

Four display suggestions are offered which are adaptable to any window. All can be constructed quite cheaply from coloured papers, plywood and cardboard, and, to supplement

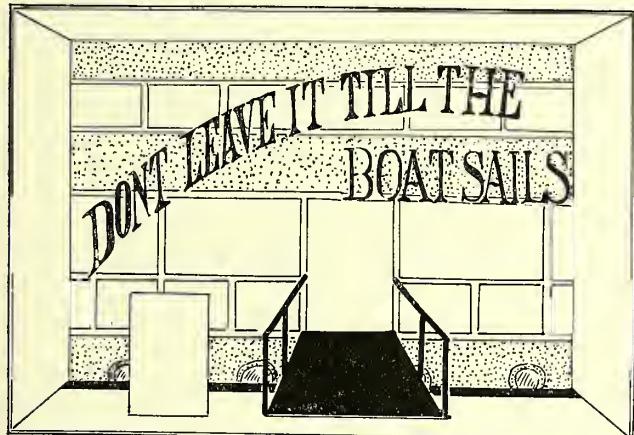


FIG. 1

these materials, travel posters can usually be borrowed quite readily from a travel agency or shipping company's office. Sanded floors in holiday shows add a touch of realism; a clean, practical method of incorporating a sanded floor in a display window is by spreading the sand on brown paper previously well coated with glue. Fig. 1 demands a plain background, which is obtained by stretching sand-coloured crêpe paper or draping cloth across the entire back. White bands, with gold and black cardboard portholes, are tacked across them, while crêpe paper tubes form the rails. The tubes are easily made. A length of good-quality crêpe about 3 in. wide and two-thirds the desired length is cut and folded lengthwise into three, with the dull side outward. One end is folded over, the drawing pin inserted towards the user, and the paper folded over again to cover the head and secure to the woodwork. The same method is followed at the other end. If the paper has been folded with the correct side outward, it "tubes" itself

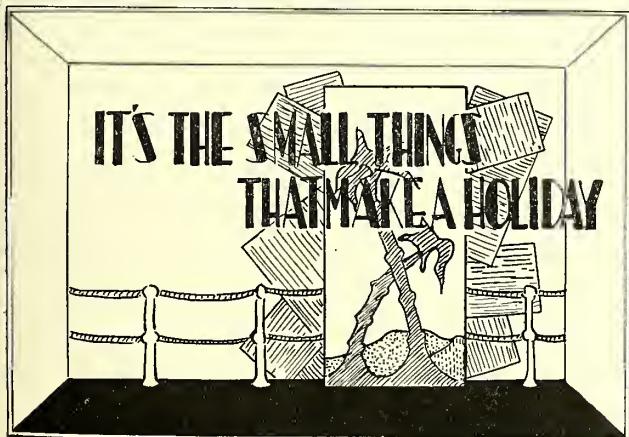


FIG. 2



FIG. 3

automatically when pulled. The lettering, "Don't leave it till the boat sails" is applied as separate letters to the back frame or, less effectively but more simply, incorporated in a large showcard. The gang-plank, tapered to give the impression of distance, is constructed from any odd pieces of timber and painted with brown water- or oil-bound paint. Fig. 2 leaves the whole of the front of the window free for a compact display, on glass ovals, pedestals, etc., of the various "small things that make the holiday." The upright panel in light blue carries a black and white impression of two palm trees, while the back of the window is in sunshine yellow, travel posters being pinned to overlap at various angles behind the panel, thus outlining it. The ship's rail can be made from flat strips cut to shape (they will only be seen from the front, so need not be round), connected by thick white rope. In a display of this nature, explanatory showcards may be avoided; a simple price ticket is all that is required, the window itself being self-explanatory. Fig. 3 makes use of a now well-known phrase "Wanted on Voyage" in the form of a large label across the window back. A local sign or ticket writer should run off a poster after this fashion quite cheaply (red lettering on white paper). A light blue back, framed with one or two white paper clouds and a white-edged dark green or dark blue wave, complete the background, the wave also being cut from stiff paper and pinned in place. It is suggested that

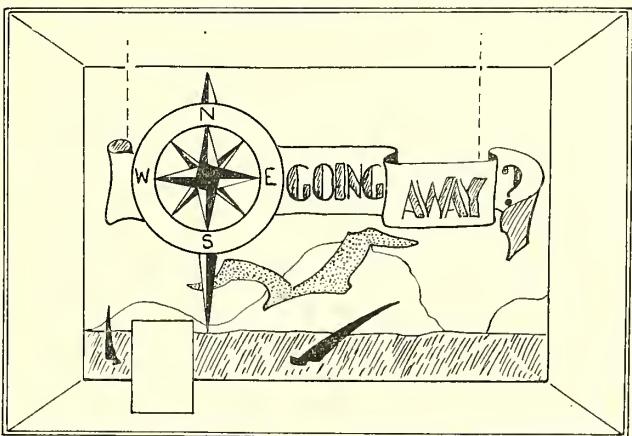


FIG. 4

a travelling-trunk be used as a display centre-piece (used and well-labelled if possible) while the stands make up a pyramid of goods on either side. Price tickets should link up with the background by being also in red letters on white board. Fig. 4 incorporates an applied paper background and plywood cut-out hanging from the ceiling.

Trade Notes

CORRECTION.—The name and address of Leigh & Sons Metal Works, Orlando Street, Bolton, is as given here and not as it appears in our advertisement pages.

NATIONAL SAVINGS CLUB.—The advantages of forming a national savings club are outlined in our advertisement pages by the National Savings Committee (Dept. T.I.C.), London, S.W.1, and employers are invited to start a holiday club for 1939 now.

FINE CHEMICALS.—Howards & Sons, Ltd., Ilford, direct attention to their bismuth, salts, salicylates, bromides, iodides, etc., elsewhere in this issue. As an eye-catcher in the advertisement, there appears one of the English drug jars from Mr. Geoffrey Howard's collection.

TREATMENT OF URTICARIA.—J. Flint, Sandoz Products, 134 Wigmore Street, London, W.1, has sent us a copy of "Modern Therapy" which deals with the treatment of urticaria and pruritis. The aetiology of the disease is described, and interesting reports of the value of calcium and calcium and bromine therapy and of nurotropic drugs are also given. Specimen copies of the brochure may be obtained on application.

A SITE FOR NEW FACTORY.—The West Cumberland Industrial Development Co., Ltd., 1 Scotch Street, Whitehaven, invite manufacturers to rent their new factory which will be built to their requirements. Full details of the advantages offered are given elsewhere in this issue. Visitors to the Empire Exhibition at Glasgow are asked to call at stands Nos. 26 and 27 in the Industries, Shipping and Travel Pavilion for further particulars.

D'ORSAY PERFUMES.—An unusual type of advertisement appears in this issue relating to D'Orsay perfume and toilet products. D'Orsay face powder is issued in eleven tints, details of which are given. An artistic window stand for display purposes may be obtained on request, and a special offer is available. These products are made by D'Orsay, Parfumeur, 17 rue de la Paix, Paris; London address: 54 George Street, Baker Street, London, W.1.

CELLULOID PRINTERS.—A useful catalogue directing attention to the many applications of celluloid in commerce has been issued by Celluloid Printers, Ltd., Kingston By-Pass, Surbiton, Surrey.

Trade-Mark Applications

(From "The Trade Marks Journal," June 29, 1938.)

- "GYPSY PETULENGRO" under portrait; for medicinal chemicals (3). By Gypsy Petulengro's Romany Remedies, Ltd., 34 Purewell, Christchurch, Hampshire. 578,367.
- "RUBBO" on medallion design of goblin; for embrocation (3). By Bruce's, Ltd., 28 Broadway, London, W.5. B583,702.
- "ADIPÔSETTES"; for medicinal preparations for obesity; "CORMIDE"; for medicinal preparations for heart diseases (3). By Dr. Rudolf Reiss, Rheumasan and Lenicet-Fabrik, Erasmusstrasse 20-24, Berlin, Germany. B584,349/585,690. (Associated.)
- "PROPADRIN"; for medicinal chemicals containing phenylpropanamine (3). By Sharp & Dohme, Ltd., 76 City Road, London, E.C.1. 580,900.
- "RADISAP"; for medicated radioactive soap (3). By Akciove Tovarny Na Vyrabent Lucibn Kolin, Kolin 11/54, Czechoslovakia. 584,357.
- "GYNOESTRYL" and "SEDO-GYNOESTRYL"; for medicinal chemicals (3). By Roussel Laboratories, Ltd., 1 Finsbury Square, London, E.C.2. 585,023/4. (Associated.)
- "NEOFRICE"; for medicinal chemicals (3). By Boots Pure Drug Co., Ltd., 37 Station Street, Nottingham. 585,372. (Associated.)
- "DOUGLAS KING" signature; for medicated preparations (3). By Douglas King, 75 Oxford Street, Pontycymmer, Glamorganshire. 585,629.
- "CENTURION" on design of centurion's head; for all goods (3). By Ernest Jackson & Co., Ltd., 29 High Street, Crediton, Devon. 585,721. (Associated.)
- "GITANE"; for perfumery (48). By Coty (England), Ltd., 3 Stratford Place, London, W.1. 585,047.
- "JUVENHAIR"; for toilet hair preparations (48). By G. Meggesy, 207 Euston Road, London, N.W.1. 583,801.

(From "The Trade Marks Journal," July 6, 1938)

- "ERAC"; for sensitised photographic film (1) and cameras (8). By The E.R.A.C. Selling Co., Ltd., 61 St. Paul's Churchyard, London, E.C.4. 584,491/492. (Associated.)
- "METANIUM"; for agricultural chemicals, etc. (2), and medicinal chemicals (3) and perfumery, etc. (48). By Meta-Titanium Laboratories, Ltd., 25 Bedford Row, London, W.C.1. 584,812/813/814. (Associated.)
- "STAMINAX"; for manures and fertilisers (2). By The Scottish Poultry Foods Co., Ltd., 10 Gourock Street, Glasgow, C.5. 585,175.
- "EVAKA" NATURE'S CLEANSING REMOVER; for preparation for removal of foetal membranes in cows (3). By Beck & Mason, Normanby Hall Gardens, Normanby, Middlesbrough. 581,390.
- "VARICANE"; for medicinal chemicals for sclerosing treatment of varicose veins (3). By May & Baker, Ltd., 42/43 St. Paul's Churchyard, London, E.C.4. B580,099.
- "CALCIDIN" and "CALCIDRINE"; for preparations containing calcium (3). By Abbott Laboratories, Ltd., 388 St. Paul Street, West, Montreal, Quebec, Canada. 580,425/426. (Associated.)
- "CANNON" under illustration of cannon; for medicinal chemicals, excluding soap (3). By Stonham & Son, Ltd., 70 Bank Street, Maidstone. 581,849.
- "DAR-LIN"; for liniments (3). By Parry Evans Laboratories, 5 Spital Street, Dartford, Kent. 585,237.
- "TROMBOLIN"; for medicinal chemicals (3); "FORTACOL"; for laxatives (3). By Norgine Pharmaceutical Products (London), Ltd., 3 and 4 Clements Inn, London, W.C.2. 585,320/802.
- "KALADEX"; for preparations for asthma and tablets and ointment for haemorrhoids (3). By N. Best, 17 Manningham Lane, Bradford, Yorks. 585,463.

Births

Notices for insertion in this column must be properly authenticated.

MICHEL.—At 14 Laburnum Road, Fareham, on July 1, the wife of William A. Michie, M.P.S., of a son.

Marriages

BOOTH—BUCHAN.—At Inverurie, on June 29, Robert W. Forbes Booth, M.P.S., to Nessie Buchan.

HOWELL—BURDIS.—At the Parish Church, Morden, Surrey, on June 18, by the Rev. J. A. G. Ainley, M.A., Thomas Ralph William Howell, M.P.S., 69 Windsor Road, Cambridge, to Isabel Burdis, 141 Shaldon Drive, Morden.

REES—OWENS.—At Sketty Church, Swansea, on July 11, Elfyn Rees, M.P.S., Ogmore Vale, Newport, to Peggy Owens.

TURNER—BRIERLEY.—At Tiviot Dale Chapel, Stockport, on July 7, Tom Turner, M.P.S., F.S.M.C., F.I.O., Stockport, to May Brierley, L.T.C.L., L.R.A.M., Bramhall.

Silver Wedding

CLARK—HARRISON.—At Dewsbury Road Wesleyan Church, Leeds, on July 16, 1913, Clarence E. Clark, M.P.S., to Lilian Harrison. Present address, 4 Parkfield Place, Beeston, Leeds.

Deaths

CAMPBELL.—At Arbroath, on June 25, Miss Margaret Mary Campbell, M.P.S., Inverness. Miss Campbell passed the Qualifying examination of the Pharmaceutical Society in 1923.

DEAR.—Recently, Mr. Theophilus Dear, Ph.C., Royal Parade, Eastbourne. Mr. Dear passed the Minor examination in 1874 and the Major in 1877.

DOIG.—In a nursing home, Perth, on July 7, Mr. John Lyall Doig, M.P.S., aged seventy-three. Mr. Doig had been in business in Dundee for more than fifty years, having retired a little over a year ago.

GIDDINGS.—At Morecambe, on July 2, Mr. David Whitehead Giddings, M.P.S., aged fifty-four. A native of Oldham, Mr. Giddings had been in business at Marine Road West, Morecambe, for some twenty years. Among the various organisations represented at the funeral were the local Branch of the Pharmaceutical Society, the Heysham Golf Club, the Constitutional Club and the Heysham Lodge of Freemasons.

LYON.—At Stoke Ferry, Norfolk, on June 29, Mr. Allen Alexander Lyon, M.P.S., aged twenty-eight.

WILSON.—In the City Fever Hospital, Bradford, on July 9, Moyra, the youngest daughter of Mr. F. C. Wilson, M.P.S., 3 Silverhill Drive, Bradford, aged three years.

Personalities

MR. C. STONELAKE, M.P.S., has been installed as president of the Rotary Club of Guernsey.

MISS BETTY CLEWORTH, daughter of Mr. John Cleworth, M.P.S., Manchester, has been granted the L.D.S. diploma.

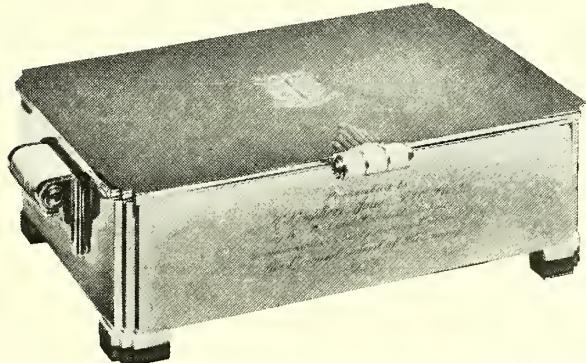
MR. W. SELZER, who has been recently appointed to assist Mr. F. J. Jackson in the representation of W. J. Bush & Co., Ltd., London, E.8, in the Lancashire area, joined the company in 1920. About seven years ago Mr. Selzer was appointed manager of the stationery and printing department of Messrs. Bush, and under his management the printers' shop was extended, so that it now executes the majority of the company's printing. To Mr. Selzer goes much of the credit of the complete revision of the export and perfumery products price lists.

MR. J. O. JOHNSTONE, M.P.S., Wallingford, has been appointed a member of the Abingdon district assessment committee.

THE following have recently been granted permission to practise as chemists in Guernsey: Mr. E. P. Squires, M.P.S., Mr. P. J. Grant, M.P.S., and Mr. B. J. J. Francis, M.P.S.

DR. JOHN E. DRIVER, Nottingham University College, who has served on the board of examiners of the Pharmaceutical Society of Great Britain, has been appointed a demonstrator in chemistry at the University of Cambridge.

MR. H. HUMPHREYS JONES, Ph.C., has been presented with a cigar and cigarette box by past and present students of the Liverpool School of Pharmacy to mark the completion of his thirty years as principal. The presentation took place at the School on June 30. After choruses by the present students and songs by Mr. C. Richards, a past student, the presentation was made by Mr. J. Butler, president of the Old Students'



Association. An address on behalf of the present students was read by Miss M. Killey and one on behalf of the past students by Mrs. V. Murray. Messrs. Humphreys, Riley and Timothy also contributed short speeches and verses. In his reply Mr. Humphreys Jones mentioned some of his earlier experiences and spoke of his indebtedness to his staff, some of whom were former students. The gift was in the form of a silver and ivory casket, suitably inscribed and having the School crest engraved on the lid.

Recent Wills

MR. PHILIP BREWSTER SEERS, M.P.S., Llanelli, who died intestate on March 14, has left estate of the gross value of £2,284, with net personality £284.

MR. HERBERT GREEN, M.P.S., 29 Main Street, Kimberley, Notts, who died on March 5, has left estate of the gross value of £2,228, with net personality £2,195.

MR. HENRY TROUGHTON, 2 Croftlands, Westbourne Road, Lancaster, retired chemist and druggist, who died on April 7, left estate of the gross value of £8,399, with net personality £6,252.

MR. JOHN JONES, The Laburnums, Merthyr Mawr Road, Bridgend, Glam., retired pharmaceutical chemist, who died on February 22, left estate of the gross value of £16,090, with net personality £15,003.

MR. ARTHUR JAMES TAYLOR, 29 Kings Road, St. Leonards-on-Sea, Sussex, chemist and druggist, who died on December 16, 1937, has left property of the gross value of £11,318, with net personality £3,220.

MR. HUGO MAX NORMAN HOTOPF, Grove House, 31 Dacres Road, Forest Hill, London, S.E., joint managing director of J. M. Steel & Co., Ltd., chemical merchants, who died on April 24, left estate of the gross value of £34,051, with net personality £17,025.

MR. JOHN FREDRICK SUTTON, M.P.S., Summerland, Stavordale Road, Weymouth, Dorset, late managing director of W. T. Cole & Son, Ltd., and a director of Stedmans (Weymouth), Ltd., who died on September 30, 1937, left estate of the gross value of £8,622, with net personality £63 1s.

NICOTINE INSECTICIDES (PART 2 POISON)

Nicotine 95-98% ; Nicotine Sulphate 40%. Nicotine Fumigants (Shreds, Compound, Rolls). "Lyce-Deth" (A Super Poultry Perch Paint). Nicotine Washes (Nico Soap, etc.). Nicotine Dusts, 2%, 3% or 4% grades.

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THE

CHEMIST AND DRUGGIST

VOL. CXXIX

July 16, 1938

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Advance in Iodides

THE announcement on Tuesday this week that the Convention price for crude iodine was advanced from 8s. to 10s. per kilog. was not in the nature of a surprise although the amount of the increase would appear to be more than was expected. When the three chief world producers of this important raw material (Chilean, Japanese and Javanese) reached agreement and ceased competing it was made clear that one of the objects, when the time was opportune, was an increase in world prices. Actually, this movement was expected to take place about June last, but, possibly, world conditions at that time were considered unfavourable for such a development. The Chilean interests are, of course, the predominating factor, and they have been seeking to improve prices for some time.

The actual increased cost of the raw material to consumers works out at 10*7d.* per lb. It is therefore satisfactory to find the makers of the salts have decided on increases which do not wholly cover this advance. The potassium salt has been advanced by 9d. per lb., from 4s. 6d. to 5s. 3d. per lb. in cwt. lots. The sodium salt is also up by 9d. from 5s. 9d. to 6s. 6d. for 28-lb. lots. The increase in resublimed is only 5d. with cwt. lots now at 5s. 9d., and iodoform has been put up from 8s. to 8s. 3d. per lb. for 28-lb. lots. an increase of 3d. per lb.

While under present world trade conditions a further advance in the price of crude iodine is not to be anticipated for some time ahead, it may become necessary for the manufacturing consumers to give the matter of sales prices of their products further consideration at no distant date. There has been, and still is, a certain limited amount of competition outside the salt makers' convention which

may have caused some temporary restriction of the increase in the raw material being fully reflected in current prices for the salts.

Some Aspirin Problems

AMONG the business transacted by the Council of the Pharmaceutical Society of Great Britain at their annual meeting on July 5 (*C. & D.*, July 9, p. 31), was the consideration of a resolution from the Newport and Monmouthshire Branch urging the Council to recommend to the Poisons Board the desirability of placing some restriction on the sale of aspirin, in view of the increasing number of self-poisoning cases arising from its indiscriminate use by the public. As this was referred to the Law Committee, it will no doubt be fully examined and the decision of the committee will be read with interest. This resolution, however, draws attention to the growing consumption of aspirin among practically all sections of the community. So great is the demand, indeed, that it may soon be difficult to find any type of retail premises at all where some brand of aspirin tablets is not on sale. Aspirin tablets are sold on railway bookstalls, general merchants' shops and other premises. The question arises as to whether or not the public are receiving what is in fact what they expect to obtain when they ask for aspirin tablets. Of the 900 tons of aspirin said to be produced in this country, it may be stated that the bulk of it reaches the consumer finally in the form of tablets. The advantage of compressed products need hardly be stressed and it is their appeal to the public which has resulted in aspirin being known only as a tablet and not as a chemical issued originally as crystals or powder. It would be interesting to know what percentage of aspirin tablets now sold are of B.P. standard. The B.P. of 1932 makes no allowance for the hydrolysis of aspirin resulting in the preparation of the substance in tablet making, but as it is a specially reactive substance in the presence of moisture, much depends upon the skill and knowledge of the manufacturer in the production of the compressed products. If aspirin is handed over to the tablet maker who compresses this chemical as an ordinary stable substance, being unmindful of its reactive properties, it is safe to say that the tablets will not be of B.P. standard. It is, in fact, not possible to obtain B.P. aspirin tablets except by scientifically controlled methods.

As we have said, the British Pharmacopoeia makes no allowance and one method of directing attention to the presence on the market of such dissociation in tablets would be to investigate the whole question. This would do much to assist the manufacturer of high-grade aspirin tablets who has to compete against many products of inferior quality distributed through indiscriminating retailers. If the sale of aspirin tablets were to be restricted to the pharmacist, it may be that much of the gastric illness due to self-drugging with this chemical would be avoided.

Hormones in Skin Creams

ELSEWHERE in this issue an abstract of considerable interest appears, taken from "The Journal of the American Medical Association." While the value of therapeutic application of sex hormones is fully recognised in this country, it is of particular interest to note the investigations in regard to the use of hormones in cosmetics. The manufacture of sex

hormones in this country is in an advanced stage, thanks to the foresightedness of certain drug houses. The use of such, however, in skin creams has hitherto been looked upon more or less with disfavour in scientific circles. This is perhaps due to the fact that hormone creams have been produced by cosmetic manufacturers who may, as a rule, not be fully cognisant of the powerful nature of the substances which they handle and of their easy decomposition. It is of interest to note that in the *C. & D.*, September 21, 1935, p. 354, an article appeared on hormone creams, and reference was made to the investigations which had been carried out by a German research worker. The essential element for success was that the hormones should be active. In this case, there was said to be a constant replenishment of cell-forming material, which resulted in a beautiful firm skin. It was held at that time that wrinkles and flabbiness resulted from hormone deficiency, and it is particularly interesting to see, as a result of the recent investigations carried out, that a commercial face cream containing female sex hormones, the amount of which is specified, produces noticeable results in about thirty days. In cosmetics, therefore, it would appear that a new knowledge is growing

up amongst us and that by means of local application the secret of perennial youth so far as appearance is concerned, will be solved by use of a hormone containing skin cream.

Vitamin creams have also received in scientific circles rather a cold welcome, yet there may be, here also, a large field for research. There is, however, a grave danger in the general use of such preparations by ordinary healthy people. The powerful effect of these substances even when absorbed by the skin may be fraught with considerable danger, as will be seen in the article referred to. This effect obviously points to the time when a cosmetic may, in fact, be a drug, and as such return to its rightful place in the distribution of such substances, that is, to the pharmacist. It is to be hoped, therefore, that discrimination will be made between preparations of active substances such as hormone products undoubtedly are and ordinary cosmetic substances, which after all are for surface use only. The important drug houses in this country are directing attention particularly to the therapeutic application of the hormones, but it would be well if some consideration were given to their potency in local application.

Salford Analyst's Report

THE Salford city analyst, Dr. G. W. Walker, has just issued his annual report for the year 1937. During this period a total of 4,362 analyses and tests have been carried out, of which 1,323 were Food and Drugs Act samples, and eight were Pharmacy and Poisons Act samples.

STAINLESS IODINE OINTMENT.—The two standard books of reference concerning this ointment are the B.P.C. and the N.H.I. National Formulary, both of which require the addition of 5 per cent. of iodine in its preparation. No directions to prevent loss, other than that the temperature should not exceed 60°, are given, and no indication is given for the amount of iodine which should be present in the finished ointment. In examining several samples of the ointment much variation in the iodine content has been found—proportions ranging from 1.3 per cent. to 5.0 per cent. In considering what would be a reasonable figure for iodine content, ointments prepared by several well-known manufacturers have been examined, and the conclusion arrived at was that with care 4.5 per cent. of iodine could be retained, and 4.0 per cent. was the lowest amount that should be retained allowing for manufacturing losses. In one sample examined, which contained only 3.3 per cent. of iodine, it was found that corrosion of the tinned iron covers of the jars had taken place, and that considerable amounts of the iodine had combined with the iron in the lid. It was therefore decided that the deficiency was accidental, and there had been no attempt to defraud, and the supply was withdrawn from sale. In another case, however, where there were no such mitigating circumstances, proceedings were instituted for the sale of an ointment containing only 1.8 per cent. of iodine, and both the retailer and wholesaler were fined. It is stated that the prices paid for the samples of ointment ranged from 1d. to 2s. per 1-oz. jar.

LIQUID IODINE PREPARATIONS.—Out of seven samples under this heading four were found unsatisfactory. One sample of iodine solution tested was deficient of 46 per cent. of iodine and also contained industrial methylated spirits. Another was found to be deficient of 38 per cent. of iodine, but contained an excess of 48 per cent. of potassium iodide, and was made with industrial methylated spirits. Iodine preparations, in the opinion of the analyst, containing ingredients other than those of the B.P., for example, industrial methylated spirits, should be sold under a name which admits no confusion with the synonyms of the B.P. A sample of methylated iodine paint contained only 0.61 per cent. of iodine, and in view of the standard for solution of iodine B.P., and the Factory and Workshops First Aid Order requiring the use

of 2 per cent. iodine solution, it was considered that methylated iodine paints, which are a definite substitute for the official iodine solution, should contain at least 2 per cent. of iodine. The makers of the sample in question undertook to conform in future to these requirements. On this standard, another sample tested was found to be deficient of 48 per cent. of iodine, but other samples of the manufacturers concerned proved to be genuine.

AMMONIATED QUININE TABLETS.—The only sample deficient in the required contents was labelled "1 drachm tablets," meaning 0.071 gm. of quinine sulphate and 0.036 gm. of ammonia. There was an excess of 27 per cent. of quinine present and a deficiency of 80 per cent. of ammonia. The suppliers, on being interviewed, undertook not to supply this form of tablet in future.

ZINC OINTMENT.—Two samples, both the products of the same firm, contained the required 15 per cent. of zinc oxide, but consisted of a benzoated lard base—used in the B.P. 1914 ointments, instead of simple ointment. The makers were asked to replace the stocks of this ointment by material complying with the current formula.

GLYCERIN OF BORAX.—This should contain 12 per cent. of borax, but one sample tested showed a deficiency of 20.8 per cent. The manufacturers were communicated with and they gave an undertaking to exercise greater care in compounding the article.

MALT EXTRACT AND COD-LIVER OIL.—While a sample tested contained the requisite amount of cod-liver oil (10 per cent. w/w), it was deficient in the protein requirements to the extent of 13 per cent. The manufacturers concerned undertook to alter their method of preparation.

PHARMACY AND POISON ACT SAMPLES.—Of the eight samples examined four were found unsatisfactory. One was ammonia solution which contained 14.8 per cent. of ammonia (w/v), and thus was a Part II poison. The label on the bottle was worded "contains commercial strong ammonia 1—I." This was considered unsatisfactory, and the makers have since submitted amended labels. Another sample of ammonia which had been sold by a non-listed seller contained 15.1 per cent. (w/w) of ammonia. This same person also sold a sample of phenol disinfectant containing 20 per cent. (v/v) of phenols. The vendor, who pleaded ignorance, has since been placed on the corporation's register of listed sellers. A person who had sold a disinfecting fluid containing 6.8 per cent. of phenols without being a listed seller was cautioned, and the manufacturers concerned were similarly cautioned.

Sex Hormones in Cosmetics

EXPERIMENTS to determine the effect of sex hormones applied externally have recently proved that certain of these substances are readily absorbed and produce results which are by no means limited to the skin ("Journal of the American Medical Association," July 2, p. 11). These investigations are of considerable importance in view of the inclusion of hormones in cosmetics, and of the statements made by some manufacturers of face creams containing them that no effects are produced on the internal structures of the body following the use of such preparations. In the experiments, male and female sex hormones have been applied in a lanolin-like base to the skin of laboratory animals.

Creams containing 50 mgm. per oz. of testosterone and testosterone propionate have been applied daily to the skin on the back of the neck or of the abdomen. It has been found that, as rubbing the substances into the hair frequently over the same area has approximately the same effect as application to the shaved skin, shaving is unnecessary. On an average about 0.6 mgm. of pure male hormone was contained in each application. Results of this treatment show that these male hormones maintain the accessory reproductive organs of castrated male animals in a normal reproductive state, and stimulate their development precociously in the young, or above the normal level in adult animals. As judged by the weights of the seminal vesicles and prostate gland of castrated male rats, applications of male hormone ointment have provided a complete substitution for the internal secretion of the testes. Two daily applications (total 1.2 mgm.) cause the seminal vesicles to become about 50 per cent. greater than those of the normal control animals. Absorption of the hormone takes place so readily that in animals which have not actually been treated, but have been in contact with treated animals, show evidence of absorption. During the most rapid period of growth of the accessory reproductive organs, treatment of castrated male rats maintains the rate of growth of the structures with either the free hormone or the propionate, and in some cases causes a much greater growth than in control animals. Inquiries made regarding the relative effect of the free testosterone and testosterone propionate, applied in an

ointment, show that the free hormone is more effective than the propionate, and it is further found that cutaneous applications of testosterone produce seminal vesicles weighing more than double those after treatment by subcutaneous injection, and almost six times more than those untreated normal animals. When applied cutaneously, the male hormones, as when injected, possess the property of injuring the testes of young growing animals, the amount of injury being believed to be inversely proportional to the amount of hormone applied.

In studying the absorption of female sex hormones from the skin, commercial face cream sold and recommended for the removal of wrinkles, which are claimed to contain oestradiol, have been used. The proportion of these substances has been about 0.6 mgm. per oz., and the manufacturer stated that its effect was limited to the skin. An amount equivalent to 40 microgrammes was recommended to be applied to the face, neck, arms and hands, and results are said to be noticeable in about thirty days. Applications of this cream varying in number and frequency have been made to the neck of both male and female animals, with the following results:—(a) Mammary development has been stimulated in normal male guinea-pigs; (b) cornified vaginal oestrus smears have been produced in ovariectomised female rats; (c) normal growth of uterus in young or mature ovariectomised rats has been maintained or increased; (d) a reduction in the weight of testes by 80 per cent., and the weight of seminal vesicles by 90 per cent. in young male rats has been noted in comparison with normal litter mates. The ease with which cutaneous ointment containing hormones is applied and the tremendous influence that the substances have when taken into the body more or less continuously, present the possible menace that would apply to any powerful drug that is easily procured. When a small fraction of the recommended daily dose applied to a relatively small area of the skin of laboratory animals causes the changes outlined above, it would certainly appear to have been illustrated that the effectiveness of the substances in question extends beyond the surface of the skin. The question also appears to have been raised of the wisdom of including these substances in face creams for indiscriminate use.

Veterinary Abstracts

Calcium Borogluconate Solutions

An improved method of preparing calcium borogluconate solutions for parenteral injections in veterinary practice is described by Stewart and MacPherson ("Veterinary Journal," June, p. 220), who make use of calcium borate in place of boric acid for dissolving calcium gluconate. That the borogluconate is a definite compound formed from one molecule of calcium gluconate and two molecules of boric acid by loss of water, has been demonstrated in a recent paper by the present authors, and it may be regarded as calcium di-borogluconate.

It is noted that the solution made according to Greig's method consists of a mixture of calcium mono- and di-borogluconates, since the proportion of boric acid in the true compound would need to be 25.73 per cent., whereas in Greig's solution it only contains 16.67 per cent. The authors emphasise, however, that the use of calcium borogluconate prepared according to Greig is entirely satisfactory, as no advantage is gained by preparing the compound itself. It is found that the pH value of Greig's solution of calcium borogluconate is 3.7, and although no ill effects are attributed to this factor, attempts have been made to prepare a solution having a pH value nearer that of the blood and which would be stable in high concentrations. Accordingly, Stewart and MacPherson, in investigating many solvents for calcium gluconate, find that calcium borate is the most satisfactory, and state that when a mixture of 20 gm. of calcium gluconate and 2 gm. of calcium borate in 100 c.c. of water was boiled for one or two minutes and filtered, the filtrate remained stable for six months. The calcium content of this solution was 2.15 per cent., compared with 1.66 per cent. of a 20 per cent. calcium gluconate solution which was made with 4 per cent. of boric acid—representing an increase of 25 per cent. Furthermore, the pH value of the solution was found to be 9.7 instead of 3.7.

Acriflavine in Bovine Mastitis

DERIVATIVES of acridine appear to have been found superior to many other compounds in the treatment of chronic contagious bovine mastitis, and recent investigations have shown that successful results follow the use of acriflavine in this condition (Stableforth and Scorgie, "Veterinary Record," June 4, p. 663). The object of the experiments was to find a satisfactory means of sterilising the udders of cows infected by *Streptococci agalactiae*, the causative organism of bovine mastitis, as the use of the majority of remedies so far tried, such as metallic compounds, phenols and vaccines, has not been attended by much success. The technique employed in the present investigations has been, after preliminary washing of the udders, the injection at blood temperature of a 1 in 10,000 solution of acriflavine into the teat ducts by a suitable apparatus. About 1,000 c.c. of the solution was injected, and in the case of lactating cows it was left in the quarters for five minutes after completing the injection. This was repeated in one week's time. With dry cows, on the other hand, the technique was the same, with the exception that the solution was allowed to remain in the quarters for twenty-four hours, and only one injection was given. Bacteriological tests were made at intervals up to two months, and in the majority of cases the milk was found to be free from streptococci. Regarding the effects of the injections, no case was met with where the cow objected to the injection, and the animals only showed slight uneasiness for a few minutes after administration. No severe irritation was observed, and signs of uneasiness generally disappeared after fifteen to twenty minutes. In both latent and clinical cases, the milk secretion was coloured yellowish-green for two to three days, but after that time it returned to its normal appearance and character.

New French Codex

(Concluded from THE CHEMIST AND DRUGGIST, June 11, p. 677)

Notes on Essential Oils

ESSENCE D'ANIS.—From the fruit of *Pimpinella Anisum*, L. Contains 80 to 90 per cent. by weight of anethol. Solidifies on cooling and begins to melt at 15°, completely liquefied between 18° and 20°. Density at 20°: 0.980 to 0.990. Refractive index: 1.552 to 1.559. At 20°, gives a polarimetric deviation between -2° and +2°.

ESSENCE DE BADIANE.—Like aniseed oil, it contains from 80 to 90 per cent. by weight of anethol. Begins to solidify at 15°, remains completely liquid at 18°. Density at 15°: 0.980 to 0.990. Refractive index: 1.553 to 1.557. At 20°, gives a polarimetric deviation between -2° and +1°.

ESSENCE DE BERGAMOTTE.—From the fruit of *Citrus Limetta*, Riss., var. *Bergamia*. Owes its fragrant properties to linalyl acetate. Density at 15°: 0.880 to 0.888. Refractive index: 1.464 to 1.468. At 20°, gives a polarimetric deviation between +4° and +25°. Free alcohols calculated as linalol 19 to 30 per cent. Not more than 6 per cent. of fatty oils. Minimum content of linalyl acetate 34 per cent.

ESSENCE DE CANELLE DE CEYLON.—Contains 65 to 75 per cent. by weight of cinnamic aldehyde. Density at 15°: 1.023 to 1.040. Refractive index: 1.580 to 1.591. At 20°, gives a feeble polarimetric deviation up to -1°.

ESSENCE DE CHENOPODE VERMIFUGE.—From the leaves of *Chenopodium ambrosioides*, var. *anthelminticum*, Gray. Contains about 65 per cent. of ascaridol. Density at 15°: 0.960 to 0.990. Refractive index: 1.474 to 1.484. At 20°, gives a polarimetric deviation between -4° and -8°. Minimum of ascaridol, 60 per cent.

ESSENCE DE CITRON.—Expressed from the fresh pericarp of *Citrus limonum* Riss. Density at 15°: 0.856 to 0.861. Refractive index: 1.474 to 1.478. At 20°, gives a polarimetric deviation between +57° and +67°.

ESSENCE D'EUCALYPTUS.—Owes its properties especially to eucalyptol (cineol), 80 to 85 per cent. Yellowish aromatic liquid. Density at 15°: 0.910 to 0.930. Refractive index: 1.457 to 1.469. At 20°, gives a polarimetric deviation between 0° and +15°. Clear solution with twice its volume of alcohol 75°. Acidity 0.7 to 1.1. Minimum of eucalyptol 80 per cent.

ESSENCE DE FLEUR D'ORANGER.—From fresh flowers of *Citrus vulgaris* Riss. Density at 15°: 0.870 to 0.880. Refractive index: 1.468 to 1.474. At 20°, gives a polarimetric deviation between +1° 30 and +12°.

ESSENCE DE GENIÈVRE.—Obtained from the berries of *Juniperus communis* L. Density at 15°: 0.867 to 0.882. Refractive index: 1.472 to 1.484. At 20°, gives a polarimetric deviation up to -11°, sometimes inactive or slightly dextrorotatory.

ESSENCE DE GIROFLE.—From the floral buds of *Eugenia caryophyllata* Thunb. Contains 70 to 85 per cent. by weight of eugenol, free and combined. Density at 15°: 1.043 to 1.068. Refractive index: 1.530 to 1.537. At 20°, gives a polarimetric deviation of about -1° 30. Minimum eugenol, 70 per cent.

ESSENCE DE LAVANDE.—Obtained from flowering tops of *Lavandula vera* D.C. Contains 35 to 55 per cent. by weight of linalyl acetate. Density at 15°: 0.882 to 0.897. Refractive index: 1.4700. At 20°, gives a polarimetric deviation between -4° and -11°. Minimum of linalyl acetate 35 per cent. by weight.

ESSENCE DE MENTHE POIVRÉE.—Contains about 50 per cent. of menthol. Density at 15°: 0.908 to 0.927. Refractive index: 1.462 to 1.471. At 20°, gives a polarimetric deviation between -10° and -35°. Minimum menthol 48 per cent.; maximum of menthylic esters expressed as methyl acetate 21 per cent.

ESSENCE DE NIAOULI.—From the fresh leaves of *Melaleuca viridiiflora* Soland. Contains 35 to 60 per cent. by weight of eucalyptol. Density at 15°: 0.908 to 0.929. Refractive index: 1.466 to 1.471. At 20°, gives a polarimetric deviation between -3° 30 and +1°. Minimum of eucalyptol 35 per cent.

ESSENCE D'ORANGE.—Expressed from the fresh pericarp of *Citrus vulgaris* Riss (Sweet Orange). Density: 0.848 to 0.853. Refractive index: 1.472 to 1.475. At 20°, gives a polarimetric deviation between +95° and +99°.

ESSENCE DE ROMARIN.—Density at 15°: 0.894 to 0.920. Refractive index: 1.467 to 1.472. At 20°, gives a polarimetric deviation between -6° and +15°.

ESSENCE DE ROSE.—Prepared by the steam distillation of the flowers of *Rosa damascena*, Mill. Density at 20°: 0.830 to 0.870. Refractive index: 1.452 to 1.464. At 20°, gives a polarimetric deviation between -1° and -4°. Determine acetylation index in presence of pyridine. Figure obtained must not be less than 55 expressed as geraniol.

ESSENCE DE SANTAL D'AUSTRALIE.—From the wood of *Santalum spicatum* = *Eucarya spicata* Sprague and Sum. Contains 80 per cent. by weight of free terpenic alcohols calculated as santalol. Density at 15°: 0.968 to 0.974. Refractive index: 1.500 to 1.581. Polarimetric deviation between -3° and -9°. The content of santalol must not be below 80 per cent.

ESSENCE DE SANTAL CITRIN.—Contains 80 per cent. by weight of free terpenic alcohols calculated as santalol. Density at 15°: 0.973 to 0.985. Refractive index: 1.504 to 1.509. At 20°, gives a polarimetric deviation between -10° and -21°.

ESSENCE DE SASSAFRAS.—Obtained from the roots of *Sassafras officinale* Nees. Density at 15°: 1.070 to 1.080. Refractive index: 1.525 to 1.530. At 20°, gives a polarimetric deviation between +1° and +4°.

ESSENCE DE TÉRÉBENTHINE OFFICINALE.—From *Pinus Pinaster* Sol. by distillation with water or steam—not superheated. B.p., at ordinary pressure, above 152°. At least 90 per cent. of its weight should distil below 170°.

ESSENCE DE THYM.—From the flowering tops of *Thymus vulgaris* L. Contains up to 30 per cent. of phenols (thymol and carvacrol). Density at 15°: 0.900 to 0.935. Refractive index: 1.491 to 1.498. At 20°, gives a polarimetric deviation between 0° and -8°. Minimum of phenols expressed as thymol 25 per cent. [Refractive indices are taken at N D/20°.]

New Books

Gattefosse, R. M.—*Esthétique Physiologique et Cosmétique Moderne*. 10 in. by 6½ in. Pp. 274, Girardot et Cie., 27 Quai des Grands Augustins, Paris, VIe. [A preface explains that this completely new volume is offered instead of a second edition of "Produits de Beauté," which was completely exhausted. The book is divided into two parts. The first, which has the subsidiary title "Aesthetics," commences with a consideration of underlying principles of physical beauty, in which the author makes a number of characteristically original suggestions. From among them may be mentioned an analogy drawn between homeopathic methods and the composition of French beauty preparations, as contrasted with the allopathic characteristics of those of other nations. The first section also contains monographs on new cosmetic materials such as carotene, avocado, and turtle oils, rhomellose, etc.; notes on treatment of the skin; and numerous formulas. The second section of the work is devoted to hair preparations and is illustrated with numerous diagrams.]

Brooksbank, Alan. *Gas, Alert!* 7 in. by 5 in. Pp. 160. 3s. Robertson & Mullens, Ltd., Melbourne. [Mr. Brooksbank was an infantry anti-gas non-commissioned officer with the Australian Forces, 1916-1918, and Divisional Gas Officer, 1930-1937, Australian Military Forces. One of the most comprehensive books published on the subject of war gases, containing much information not found elsewhere. A detailed description of the gases is given, methods of detection, pharmacists' duties before, during and after gas attacks, diagnosis of casualties, etc. Methods of civilian and military defence against attacks are dealt with and the organisation and training of defence personnel. Much of the information given is of an advanced character, and the book would be suitable only for instructors. A foreword is written by Mr. Charles P. A. Taylor, Junr., president, Pharmaceutical Society of Victoria, and in the preface to his book Mr. Brooksbank, who is not a chemist, says: "The publication of this book has been made possible by the public spirit and generosity of the Pharmaceutical Society of Victoria."]

Cell Wall Structure

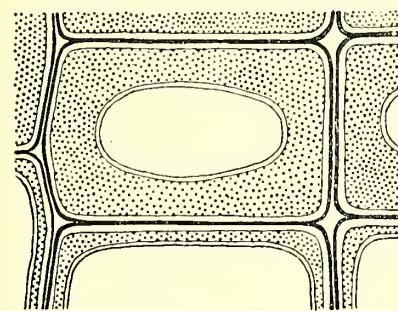
TWO important studies of the structure of cell walls in plant tissues appear in "Industrial and Engineering Chemistry" for January, 1938 (pages 40-54). The first of these, by D. B. Anderson and T. Kerr, relates to cotton fibre, which has the advantage, in tensile strength, of being a single-celled outgrowth of the epidermis of the ovule.

Cotton Fibres

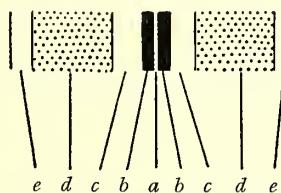
The first evidence of the formation of the cotton hair is as a slight swelling of the outer wall of an epidermal cell on the day of flowering. This elongates rapidly on the following day into a delicate tubular outgrowth which increases in length for fifteen to twenty days, when elongation ceases abruptly. The full diameter of the cotton hair is attained soon after it originates, but the final length of the single cell is some 1,200 times its width. The outgrowth of cotton fibres is not limited to the day of flowering, but the later hairs form the dense mat

(of fuzz hair and linters) which adheres closely to the cotton seed. During the elongation period the primary wall is only 0.5μ thick and consists of pectic substances and cellulose (no cutin being present), and probably waxes. The primary wall persists in the mature cotton fibre and is commonly designated the cuticle. The cellulose present in the primary wall forms an open mesh-work of fine thread-like strands which anastomose frequently. Relatively large amounts of pectic substances surround and infiltrate the meshwork of cellulose threads which are wound into two opposed spirals at an angle of approximately 70° to the long axis of the fibre. Evidence is given of a third transverse

system of very delicate threads of cellulose. The first evidence of the secondary wall appears about the sixteenth day after flowering (when elongation ceases), and the secondary deposition starts suddenly as anastomosing strands that wind in a steep spiral of about $20-30^\circ$ to the vertical completely covering the inner surface of the primary cell. Reversals of the direction are a most conspicuous feature of the first layer of secondary thickening, the cellulose threads changing from a right hand to a left hand spiral or vice versa as many as fifty times in a single hair. The commonest type of reversal is one in which the fibres simply change direction by bending around in the form of an arc, but there is a second type in which one set of spirals ends and another set commences in the opposite direction. The strands overlap at the place of reversal in both systems. On the day following the initiation of secondary thickening, a second layer is laid down on the inner surface of the first layer, but the pattern is often the reverse of the first. Deposition of successive layers continues day by day and the striking lamellation of the fibre in cross section denotes the number of days during which secondary thickening has occurred. This correlation is due to alternations of dense and less dense zones of cellulose denoting differences in the rate of deposition. Low night temperature (below 20°C) lessens deposition and causes sharp separation from swollen sections of dense (day) zones. No



TRANSVERSE SECTION OF ONE ENTIRE FIBRE AND OF PARTS OF SEVEN OTHERS.



SECTION OF ADJACENT WALLS MORE HIGHLY MAGNIFIED.—*a*, Truly isotropic intercellular substance; *b*, Primary wall; *c*, Outer layer of secondary wall; *d*, Central layer of secondary wall; *e*, Inner layer of secondary wall.

growth rings are formed when cotton plants are subjected to constant illumination at approximately constant temperature. The fibre matures in about twenty-five days, but the period may be prolonged to seventy days in bolls developed from flowers opening late in the summer. The long cellulose chains are apparently aggregated roughly parallel to one another into indefinite bundles or "micelles." The micellar hypothesis seems to satisfy observations on cotton fibre, their orientation being responsible for the optical and physical properties of the many-layered wall.

Cell Aggregates of Higher Plants

The second discussion of cell wall structure, by I. W. Bailey, relates to cell aggregates or tissues of higher plants. It is essential to differentiate three distinct categories:—

- (1) Meristematic or embryonic cells retaining capacity for growth with a primary wall capable of expanding and undergoing reversible changes in thickness. Such cell wall is composed in most cases of cellulose and pectic substances and may contain hemicelluloses. It is optically anisotropic and exhibits a wide range of structural patterns.
- (2) Fibres and other highly differentiated plant cells retain their original primary wall but lose their growth potentialities following formation of the secondary wall, having a mechanical function. The secondary layers are composed of cellulose or mixtures of cellulose and hemicellulose (pectic compounds are usually absent). It is often conspicuously laminated.
- (3) An isotropic intercellular substance or "middle lamella" holds adjacent cells together. The tenuous middle lamella is composed of pectic compounds and is optically isotropic.

The visible texture of the primary wall is due to inequalities in thickness, the primary wall of a parenchymatous cell showing a metticate structure. The contiguous walls of living cells are perforated by threads of protoplasm which produce sieve-like portions when closely aggregated. Such tenuous primary wall, freed from non-cellulose constituents, persists as an extremely porous but firmly coherent matrix of feebly anisotropic cellulose. The thicker parts of the primary walls exhibit a distinct lamination when carefully swollen, indicating that the wall increases in thickness by apposition of successively formed layers when the cell is not dividing or increasing in surface area.

Structure of Secondary Wall

The visible structure of the secondary wall is extremely complex. The "compression wood" of conifers and the gelatinous fibres of elms, oaks and other dicotyledons exhibit a secondary wall consisting of independent concentric layers of cellulose separated by non-cellulose bands. The normal fibres of softwoods, hardwoods and many commercially important fibres have secondary walls composed of a cellulose matrix which is firmly coherent throughout. Such walls are frequently three-layered owing to the narrow inner and outer layers having a higher refractive index than the central layer. The layering is apparently due to the different orientations of aggregates of chain molecules. Lignin and other non-cellulose substances may be deposited in the interstices of the cellulose matrix to form two continuous, interpenetrating systems. In radially striated wood fibres the cellulose and lignin form alternating lamellæ of different porosity, oriented radially. Combinations of concentrical and radial orientations of porosities give rise to structural patterns of extraordinary complexity and diversity. The arrangement of fibrils in homologous layers is examined by treating chlorinated tissues with aqueous iodine-potassium-iodide solution, followed by adding one drop of sulphuric acid (60 per cent.). Dark brown crystals of iodine form within the layers of the secondary wall within the elongated interstices of the cellulose matrix. The arrangement of fibrils varies not only from cell to cell of the same tissue but frequently in different parts of the same cell. Consequently it is unsafe to assume that any specific tissue is characterised by a constant fibrillar orientation or that fibres can be homologised on a single structural model.

World Trade Figures

H.M. STATIONERY OFFICE have recently published a report relating to the import and export trade in all classes of merchandise of certain foreign and British overseas countries during the years 1935-1937. A study of the 150 pages of this report provides a comprehensive review of the trading activities of practically every country in the world, indicating the weakness or strength of each country, as the case may be, in their domestic resources of raw materials and their ability, or otherwise, to produce and sell for export manufactured goods or essential raw materials. The aggregates of values of imports and exports of thirty-eight countries, which include all the leading industrial nations of the world, show that with but few exceptions the values of commercial imports substantially exceed those of exports. Among the countries that have a favourable trade balance are Soviet Russia, Czechoslovakia, United States of America, Argentine Republic, Canada, New Zealand, Australia and India. Countries with considerable adverse trade balances include Norway, France, Switzerland, Italy, United Kingdom, Austria, Greece, China and Japan.

The particulars of values of imports and exports of distinctive classes of goods of individual countries show that in most instances where the exports of raw materials and semi-manufactured articles exceed the value of imports of similar goods, the landings of manufactured articles is much greater than the shipments of such articles. For instance, in the case of Soviet Russia, imports of raw materials in 1937 totalled £25,861,000, against exports of £39,124,000; while the imports of completely manufactured articles amounted to £20,883,000, against exports of £12,363,000. Germany is an example where the position is reversed, with imports of raw materials in 1937 valued at £162,030,000 and exports only £46,884,000. Her imports of manufactured articles ready for use totalled only £13,075,000, whereas exports of these goods amounted to no less than £255,247,000. The position in France is, to a lesser degree, the same: imports of raw materials in 1937 were three times the value of exports, while imports of manufactured goods were only about half the value of exports. The United States of America is another striking example. Imports of "crude materials" in 1937 totalled £197,000,000, against exports of similar commodities of £146,000,000, while "manufactures for further use in manufacturing and articles ready for consumption" exported in the same year totalled £464,000,000, against imports of only £239,300,000. The figures for Japan record that imports of "crude materials" in 1937 amounted to £116,350,000, against exports of only £7,766,000, while her imports of "articles wholly manufactured" amounted to only £24,546,000, against a total of exports of £110,816,000.

It may appear peculiar that those countries as indicated by comparatively small imports and considerable exports, who are in a strong position as regards domestic supplies of raw materials (excluding foodstuffs), are amongst the weakest countries exporting manufactured goods, while those countries who find it necessary to import large quantities of raw materials are predominant in the export world of manufactured goods. A country which is rich in raw materials concentrates on their exploitation, and there is no particular economic pressure to specialise in overseas sales of manufactured articles, whereas countries with inadequate supplies of basic materials find it essential to develop their manufacturing industries. In practically every country home markets of the leading industries, whether they be raw materials or manufactured goods, are protected by prohibitive tariffs or some other form of import restriction. The success in export sales of manufactured goods is in most cases achieved by a system of selling to overseas markets at prices below those charged in the protected home market.

Details of imports and exports of chemicals and drugs, oils, etc., are given in some cases and the following are of interest.

Soviet Russia: imports of chemicals and drugs, 1936, 24,781,000 roubles, 1937, 16,092,000 roubles; exports, 1936, 15,759,000 roubles, 1937, 15,252,000 roubles.

Germany: exports of pharmaceutical products, 1936, 111,029,000 reichmarks, 1937, 139,790,000 reichmarks; exports of photographic apparatus, 1936, 51,603,000 reichmarks, 1937, 63,562,000 reichmarks.

France: exports, tartaric acid and tartrates, 1936, 25,181,000 francs, 1937, 51,824,000 francs; essential oils, 1936, 54,410,000 francs, 1937, 164,629,000 francs.

Australia: imports of drugs, chemicals and dyes (excluding sulphur), 1936, £423,000, 1937, £503,000; perfumery and toilet preparations, 1936, £191,000, 1937, £262,000.

New Zealand: imports of medicinal preparations, 1936, £N.Z.328,000, 1937, £N.Z.391,000.

Canada: imports of drugs and medicines, 1936, 3,207,000 dollars, 1937, 3,510,000 dollars.

Switzerland: exports of drugs and medicinal preparations, 1936, 31,178,000 francs, 1937, 43,903,000 francs.

Italy: exports of olive oil, 1936, 67,065,000 lire, 1937, 155,827,000 lire; essential oils and perfumes, 1936, 33,105,000 lire, 1937, 74,270,000 lire.

Czechoslovakia: exports of chemical products, 1936, 136,013,000 koruné, 1937, 197,527,000 koruné.

Greece: exports of olive oil, 1936, 275,241,000 drachmas, 1937, 241,210,000 drachmas.

United States of America: exports of medicinal and pharmaceutical preparations, 1936, 14,393,000 dollars, 1937, 17,979,000 dollars.

Brazil: imports of chemicals, drugs, etc., 1936, 166,685,000 milreis, 1937, 191,531,000 milreis.

Argentine Republic: imports of chemicals and pharmaceutical products, 1936, 53,135,000 paper pesos, 1937, 64,851,000 paper pesos.

China: imports of medicines, drugs, etc., 1936, 10,574,000 dollars, 1937, 10,998,000 dollars. Exports of antimony, 1936, 9,887,000 dollars, 1937, 11,446,000 dollars. Wood oil, 1936, 73,379,000 dollars, 1937, 89,846,000 dollars.

Union of South Africa: imports of drugs and apothecary ware, 1936, £S.A.645,000, 1937, £S.A.698,000.

India: imports of drugs and medicines, 1936, 2,01,18,000 rupees, 1937, 2,29,79,000 rupees. Exports, shellac and button lac, 1936, 1,36,43,000 rupees, 1937, 1,49,70,000 rupees.

British Malaya: imports of drugs and medicinal preparations, 1936, 4,576,000 dollars, 1937, 5,902,000 dollars; areca nuts, 1936, 4,290,000 dollars, 1937, 6,244,000 dollars. Exports of gum dammar, 1936, 1,420,000 dollars, 1937, 1,635,000 dollars.

Ceylon: imports of chemicals, drugs, etc., 1936, 40,56,000 rupees, 1937, 47,96,000 rupees. Exports of desiccated coconut, 1936, 70,42,000 rupees, 1937, 67,80,000 rupees; citronella oil, 1936, 5,13,000 rupees, 1937, 13,29,000 rupees; papain, 1936, 4,47,000 rupees, 1937, 4,21,000 rupees.

Hong Kong: imports of drugs, chemicals and medicines, 1936, 21,761,000 dollars, 1937, 32,189,000 dollars. Exports of drugs, chemicals and medicines, 1936, 17,246,000 dollars, 1937, 23,648,000 dollars.

American Peppermint Oil

PARTICULARS of American exports of peppermint oil during the past fifteen years are given in the following table. The chief destinations in 1937 were United Kingdom, 155,000 lb.; Germany, 56,000 lb.; Canada, 28,730 lb.; France, 23,300 lb.; and Holland, 12,000 lb.:—

Year	Lb.	Total	\$ value per lb.	Year	Lb.	Total	\$ value per lb.
1923	123,000	366,000	2.98	1930	233,000	700,000	3.00
1924	177,000	847,000	4.79	1931	230,000	438,000	1.90
1925	68,000	276,000	11.41	1932	263,000	455,000	1.73
1926	68,000	571,000	8.40	1933	235,000	567,000	2.41
1927	213,000	833,000	3.91	1934	238,000	679,000	2.85
1928	177,000	604,000	3.41	1935	338,000	865,000	2.56
1929	222,000	795,000	3.58	1936	386,000	874,000	2.27
				1937	349,000	895,000	2.57

Domestic production of peppermint and spearmint oils, combined, during the years 1935, 1936 and 1937:—

State	1935	1936	1937	State	1935	1936	1937
Indiana...	462,000	270,000	363,000	Oregon ...	48,000	79,000	60,000
Michigan	805,000	560,000	487,000	Washington	19,000	35,000	30,000
Ohio ...	18,000	13,000	24,000	Total ...	1,352,000	957,000	954,000

Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, July 14

THE VOLUME OF TRADE, which showed a general improvement last week, continues to be fairly well maintained, and prices, except for one or two of the leading speculative commodities, are being steadily maintained at the rather better figures recently recorded. In the foreign exchange market a good recovery in the American dollar is noted, but it has yet to be seen whether this movement will be sustained. According to reports, trade conditions in America are certainly better than they were only a month ago, and promise a revival of business from that country, which is long overdue. In the PHARMACEUTICAL CHEMICALS markets trade continues quietly, with values steady. A sharp increase in the price for CRUDE IODINE has forced makers to advance their prices for the salts. The increases, however, are not in proportion to the advance in the raw material. We refer to this movement on p. 59. The better tone in EPHEDRINE HYDROCHLORIDE, B.P., noted last week is well maintained, and a very fair amount of buying is again recorded.

Crude Drugs

The better tone and improved volume of business in these commodities noted last week is being fairly well maintained, although one or two of the speculative items have reacted a little following the advances in values. The demand on spot for Japanese products coming from Kobe has not been so active this week, but spot holders are not inclined to weaken their ideas of values; there are but few shipments offers from the source and high prices continue to be quoted. At slightly cheaper spot figures, AGAR is firm on spot. The shipment market for Curaçao aloes continues very firm, with practically nothing offered. Canada BALSAM is steadier as now quoted. BUCHU remains quiet on spot. Shippers are maintaining their quotations for new crop CASCARA SAGRADA, but there is no evidence of any bulk orders being placed. Shipment market for Norwegian COD-LIVER OIL is reported dull. It is evident that ERGOT of any description is going to remain at high prices for some time; a world shortage is indicated. West African GINGER is at better figures. Sudan GUM ACACIA shows further slight recovery on a steadier spot market. HYDRASTIS is reported firmer at the source. Recent advances in Japanese MENTHOL are maintained on spot, although the demand has fallen off; shipment market is firm. WHITE PEPPERS show an improvement on the week. PIMENTO is again dearer. RUBBER is about level on the week. New crop SENEGA is attracting less attention. Madras finger TURMERIC continues firm for shipment.

Essential Oils

General routine trade has been fair, but some of the leading seasonal lines continue to disappoint. Prices are keeping about steady. ANISE (STAR) on spot is quieter, but in view of the strong forward position, holders' prices are being maintained. It is difficult to explain the marked lack of demand for Sicilian hand-pressed LEMON; steady sales in the Californian product are reported. Supplies of French Guinea ORANGE oil continue to move slowly at keen prices for bulk quantities. The demand for Japanese PEPPERMINT has been quieter, but the moderate stocks appear to be in strong hands on spot, while the few shipment quotations continue at comparatively high figures. A sharp advance in shipment prices for U.S.P. SPEARMINT is recorded.

Exchange Rates on London

THE FOLLOWING IS A LIST OF THE CHIEF CONTINENTAL AND OTHER EXCHANGE RATES AT THE OPENING ON THURSDAY MORNING:

Centre	Quoted	Par	July 7	July 14
Amsterdam ...	Fls. to £	12·107	8·95½	8·95½
Berlin ...	Mks. to £	20·43	12·29	12·25
Brussels ...	Belgas to £	nominal	29·18	29·12
Copenhagen ...	Kr. to £	18·159	22·40	22·40
Lisbon ...	Esc. to £	110	110½	110½
Madrid ...	Ptas. to £	25·24½	nominal	nominal
Milan ...	Lire to £	92·46	94	93½
Montreal ...	Dols. to £	4·86½	4·98	4·96½
New York ...	Dols. to £	nominal	4·94	4·92½
Oslo ...	Kr. to £	18·159	19·90	19·90
Paris ...	Fr. to £	124·21	177½	178½
Prague ...	Kr. to £	164·25	142½	142½
Stockholm ...	Kr. to £	18·150	19·40	19·40
Warsaw ...	Zloty to £	43·38	26½	26½
Zurich ...	Frs. to £	25·2115	21·61	21·57

Bank rate 2 per cent.

Pharmaceutical Chemicals, etc.

BUSINESS continues on moderate lines. Ephedrine Hydrochloride, B.P., is steady at the better prices recorded last week. Iodides have been advanced in consequence of a sharp advance in the price of crude iodine.

ASPIRIN (TABLETS).—The following are agreed wholesale prices for the British makers: Under 5,000, 3s. per 1,000; 5,000 2s. 1d.; 10,000, 2s. 1d.; 25,000, 2s. 9d.; 50,000, 2s. 8d.; 75,000, 2s. 7d.; 100,000, 2s. 6d.; 250,000, 2s. 5d.; 500,000, 2s. 4d.; 1,000,000, 2s. 3d.; 2,000,000, and over, 2s. 2d. per thousand tablets. A rebate of 1d. per 1,000 is allowed on orders for 10 million tablets taken over a period of 12 months. For small quantities higher prices would be asked by wholesale distributors.

BARBITONE.—Dealers' prices are irregular: two cwt., 8s. 1d.; 56 lb., 9s. 2d.; less than 56 lb., 9s. 5d. ex store, London.

BENZOIC ACID (B.P.).—Makers' prices continue at the recent reduction: five cwt., 1s. 7½d.; one cwt., 1s. 8d.; smaller parcels, from 1s. 9d. up to 2s. 2d. per lb., as to quantity.

BORAX (B.P.).—Makers' prices steady: granulated, £24; crystals, £25; powdered, £25 10s.; extra fine powder, £26 per ton, in one-cwt. bags, carriage paid buyers' works for minimum 1-ton lots. Extra for smaller quantities. Commercial quality, £8 per ton less for all descriptions.

BORIC ACID (B.P.).—Makers' prices continue steady: granulated, £36 10s.; crystals, £37 10s.; powder, £38 10s.; extra fine powder, £40 10s. per ton, in 1-cwt. bags, carriage paid to buyers' works on 1-ton minimum. Commercial quality, £8 per ton cheaper for all descriptions.

BROMIDES.—Makers' scales of prices steady. POTASSIUM, B.P., five cwt., 1s. 8d.; one cwt., 1s. 9d.; 28 lb., 2s. per lb. SODIUM, B.P., five cwt., 1s. 10d.; one cwt., 1s. 11d.; 28 lb., 2s. 2d. per lb. AMMONIUM, B.P., five cwt., 1s. 11d.; one cwt., 1s. 12d.; 28 lb., 2s. 3d. per lb. net. Resale clause applies. 28-lb. parcels and one-cwt. cases free. Smaller quantities than 28 lb. at higher prices. Export quotations are maintained as follows: POTASSIUM, B.P., five cwt., 1s. 4d.; one cwt., 1s. 4d. SODIUM, B.P., five cwt., 1s. 5d.; one cwt., 1s. 5d. AMMONIUM, B.P., five cwt., 1s. 6d.; one cwt., 1s. 7d. per lb. f.o.b.

BUTYL CHLORAL HYDRATE.—Market is steady: spot, 14 lb., 8s.; 7 lb., 8s. 3d.; 1 lb., 8s. 6d. per lb., in 1-lb. bottles.

CAFFEINE.—The scales for Continental material, duty paid, in 5-lb. tins, are as follows:—Pure alkaloid, two cwt., 8s. 10d.; one cwt., 9s. 0d.; 56 lb., 9s. 2d.; less than 56 lb., 9s. 4d. per lb. Citrate, two cwt., 5s. 11½d.; one cwt., 6s. 0½d.; 56 lb., 6s. 1½d.; less than 56 lb., 6s. 2½d. per lb. Soda salt, two cwt., 6s. 2½d.; one cwt., 6s. 3d.; 56 lb., 6s. 4½d.; less than 56 lb., 6s. 5½d. per lb. English makers' prices as follows: Pure alkaloid, two cwt., 9s.; one cwt., 9s. 2d.; 56 lb., 9s. 4d.; less than 56 lb., 9s. 6d. per lb. Citrate, two cwt., 5s. 11d.; one cwt., 6s.; 56 lb., 6s. 6d.; less than 56 lb., 6s. 2d.

CALCIUM LACTATE.—Moderate small business, quoted unchanged: one cwt., 1s. 0d.; 56 lb., 1s. 1d.; 28 lb., 1s. 2d.; smaller quantities, up to 1s. 6d. per lb.

CHLORAL HYDRATE.—Home makers' scale of prices steady: duty paid crystals in 14-lb. free containers, five cwt., 3s. 2d.; one cwt., 3s. 3d.; 28 lb., 3s. 4d. per lb., 28-lb. jars one penny per lb. extra.

CHLOROFORM.—Makers' prices steady: two cwt., 2s. 5½d. per lb.; one cwt., 2s. 6d.; 56 lb., 2s. 6½d.; less, 2s. 7½d. per lb., in w-quarts of 8 lb. Packed in drums 1d. per lb. less. Small bottles extra, from 5d. per lb. for ½-lb. bottles to 1d. per lb. for 2-lb. bottles. Carriage paid on minimum cwt. lots.

CITRIC ACID (B.P. CRYSTALS).—Market is steady: British material quoted at 1s. 0d. per lb., less 5 per cent. discount, nominal and without engagement. Dealers' prices for imported material are competitive.

CREAM OF TARTAR.—Continues in average demand: British material, 99 to 100 per cent., 92s. per cwt., less 2½ per cent. discount. Dealers' prices for foreign material competitive.

CREOSOTE (B.P.).—Business of little importance: bulk quantities, in 25-kilo demijohns, 1s. 6d.; small parcels, 1s. 7½d. to 2s. per lb., ex store.

EPHEDRINE.—Fair inquiry for Hydrochloride, B.P., continues, and makers' prices for bulk quantities are steady at 6s.; smaller lots, up to 6s. 9d. Pure, alkaloid, 7s. 9d. to 8s. 6d. per oz., as to quantity.

GALLIC ACID.—Steady as quoted: one cwt., 3s.; 56 lb., 3s. 1d.; smaller parcels, up to 3s. 6d. per lb.

IODIDES.—Makers of these salts notify advances in their scales of prices, due to the big increase in the price of iodine. POTASSIUM is advanced 9d.; SODIUM, 9d.; IODINE, RESUBLIMED, 5d., and IODOFORM,

3d. per lb. The new scales are as follows:—**POTASSIUM**, B.P.—Not less than 1 cwt., 5s. 3d.; not less than 28 lb., 5s. 6d.; not less than 14 lb., 5s. 9d.; not less than 7 lb., 6s. 3d.; not less than 4 lb., 6s. 9d.; smaller quantities, 7s. 3d. per lb. **SODIUM**, B.P.—Not less than 28 lb., 6s. 6d.; not less than 14 lb., 6s. 10d.; not less than 7 lb., 7s. 4d.; not less than 4 lb., 8s.; smaller quantities, 8s. 10d. per lb. **IODINE**, B.P., RESUBLIMED.—Not less than 1 cwt., 5s. 9d.; not less than 28 lb., 6s.; not less than 14 lb., 6s. 3d.; not less than 7 lb., 6s. 9d.; not less than 4 lb., 7s. 5d.; smaller quantities, 8s. 2d. per lb. **Iodoform**, B.P., CRYST., PRECIP. or POWDER.—Not less than 28 lb., 8s. 3d.; not less than 14 lb., 8s. 7d.; not less than 7 lb., 9s. 3d.; not less than 4 lb., 10s. 1d.; smaller quantities, 10s. 10d. per lb. Contracts for 1 cwt. and upwards (assorted if required) with fall clause, for delivery as required during four months. 28-lb. tins and 1-cwt. cases free. All bottles are charged, but will be credited in full if returned, carriage paid, in good condition within three months. Carriage paid on any quantity. It is a condition of sale that buyers undertake not to resell any quantity of the above products at prices or terms below the scale for any such quantity current at the time the resale is made. The previous alteration in prices was on August 9, 1937.

METHYL SALICYLATE.—Business remains quiet; spot, ten cwt., 1s. 1d.; five cwt., 1s. 2d.; one cwt., 1s. 2d.; less than one cwt., 1s. 3d.; small quantities, in bottles, up to 2s. per lb.

METHYL SULPHONAL.—Dealers' spot prices are irregular: two cwt., 19s. 9d.; one cwt., 19s. 9d.; 56 lb., 20s. 2d.; small parcels, up to 20s. 8d. per lb.

PARAFORMALDEHYDE.—Steady, small demand: 100 per cent. powder, quantities in kegs, 1s.; smaller parcels, up to 1s. 4d. per lb., as to quantity.

PARADEHYDE.—Quoted unchanged: in carboys, 1s. 2d.; in winches, 1s. 5d. to 1s. 6d.; in bottles, 1s. 7d. to 1s. 10d. per lb., ex store.

PHENACETIN.—Fair amount of small business, market steady: crystals or powder, bulk quantities, 2s. 6d.; smaller parcels, 2s. 7d. up to 3s. per lb., as to quantity.

PHENAZONE.—Keen competition for a limited business: crystals, five cwt., 6s. 9d.; two cwt., 7s.; one cwt., 7s. 3d.; and less, 7s. 6d. per lb., with powder 2d. per lb. extra.

PHENOLPHTHALEIN.—Quoted prices are steady: two cwt., 2s. 9d.; one cwt., 2s. 10d.; 28 lb., 3s.; 14 lb., 3s. 1d.; 7 lb., 3s. 2d.; smaller parcels, up to 3s. 6d. per lb.

PHENYLETHYLBARBITURIC ACID.—Small parcels, in 2-lb. bottles, are quoted at about 18s. 9d. to 20s. per lb., as to quantity.

PHOTOGRAPHIC CHEMICALS.—Home makers' prices are as follows: **AMIDOL**.—28 lb., 8s.; 14 lb., 8s. 9d.; 7 lb., 9s. 6d., in free 7-lb. tins; under 7 lb., 12s. per lb., in free 1-lb. bottles. **CHLORQUINOL**.—1-lb. bottles, 21s. per lb. **GLYCIN**.—7 lb., 10s. 6d.; 1-lb. bottles, 13s. 6d. per lb. **HYDROQUINONE**.—56 lb., 4s. 10d.; 28 lb., 5s.; 14 lb., 5s. 3d.; 7 lb., 5s. 6d.; in 1-lb. bottles, 6s. 6d. per lb. **METOL**.—28 lb., 9s. 6d.; 14 lb., 9s. 9d.; 7 lb., 10s. 6d., tins free; 3 lb., 12s., bottles free; 1-lb. bottles, 12s. 6d. per lb., bottles free. **ALUM (PHOTOGRAPHIC QUALITY)**.—1 cwt., 21s. per cwt., 28 lb. for 6s. **GOLD CHLORIDE**.—15-grain tubes, 45s. per doz. **MAGNESIUM POWDER**.—10s. per lb. **PARAMIDO-PHENYL HYDROCHLORIDE**.—8s. 6d. per lb., bottles free. **POTASSIUM FERRICYANIDE**.—14 lb., 2s. 2d.; 7 lb., 8s. 4d.; 1 lb., 2s. 6d. per lb. **POTASSIUM METABISULPHITE**.—One cwt., 8d.; 28 lb., 9d.; 14 lb., 10d.; 7 lb., 1s. per lb. **PYROGALLIC ACID, CRYST.**.—28 lb., 7s. 3d.; 14 lb., 8s.; 7 lb., 8s. 9d.; under 7 lb., 9s. 3d. per lb. **SODIUM CARBONATE RECRYST.**.—5 cwt., 12s. 6d. per cwt.; 1 cwt., 15s. 6d. per cwt.; 56 lb. for 11s. 6d.; 28 lb. for 6s. **SODIUM HYPOSULPHITE, CUBES, CRYST.**.—5 cwt., 17s.; 1 cwt., 19s. 6d. per cwt.; 56 lb. for 11s. 6d.; 28 lb. for 6s. **SODIUM SULPHIDE (PURE)**.—7 lb., 1s. 9d.; 1 lb., 2s. per lb., bottles and jars free. **SODIUM SULPHIDE, RECRYST.**.—One cwt., 21s. 6d. per cwt.; 56 lb. or 13s. 6d.; 28 lb. for 7s.

POTASSIUM PERMANGANATE (B.P.).—Continues steady and in fair demand: in drums, 8s. 3d. to 9d.; druggists' parcels, from 10d. to 1s. per lb.

POTASSIUM SULPHOGUAIACOLATE.—Market is quiet: quoted at about 6s. 1d. to 6s. 6d. per lb., as to quantity.

QUININE SALTS.—Convention prices continue unchanged: sulphate, 2s. 2d.; bisulphite, 2s. 2d.; ethyl carbonate, 2s. 9d.; salicylate, 2s. 10d.; hydrochloride, 2s. 8d.; dihydrochloride, 3s.; hydrobromide, 2s. 8d.; dihydrobromide, 3s.; valerianate, 3s. 8d.; hydrophosphate, 4s.; alkaloid, 3s. 0d. per oz., carriage paid on bulk quantities; 100-oz. tins free, smaller packages extra.

RESORCIN.—Makers' home trade prices are steady: crystals, one cwt., 5s. 5d.; 56 lb., 5s. 6d.; 28 lb., 5s. 7d.; 14 lb., 5s. 9d.; 7 lb., 6s.; smaller quantities, up to 7s. per lb.

SACCHARIN.—Convention price for 550 is 37s. 6d. per lb., duty paid, with rebates for quantities.

SALICYLIC ACID (B.P.).—Business remains dull: five cwt., 1s. 7d.; one cwt., 1s. 7d.; 28 lb., 1s. 10d.; 14 lb., 1s. 11d.; 7 lb., 2s. 0d.; 4 lb., 2s. 2d. per lb.

SALOL.—Keen prices quoted on a slow market: about 2s. 1d. to 2s. 6d. per lb., as to quantity.

SANTONIN.—The demand on spot remains quiet with sellers of bulk lots from about £10 5s. per kilo. Smaller parcels, up to £11 10s. per kilo, ex store.

SODIUM BENZOATE (B.P.).—Makers' prices continue at the recent reduction: five cwt., 1s. 3d.; one cwt., 1s. 4d.; smaller parcels, from 1s. 5d. up to 2s. per lb., as to quantity.

SODIUM DIETHYLBARBITURATE.—Controlled prices are unchanged: spot, one cwt., 11s.; 28 lb., 11s. 3d.; 14 lb., 11s. 6d.; 7 lb., 11s. 9d.; smaller parcels up to 12s. 3d. per lb.

SODIUM SALICYLATE (B.P.).—Quotations steady, business slow: home trade, crystals or powder, five cwt., 1s. 5d.; one cwt., 1s. 6d.; 28 lb., 1s. 9d.; 14 lb., 1s. 10d.; 7 lb., 1s. 11d.; 1 lb., 2s. 4d. per lb.

SULPHONAL.—Small spot demand, quotations keen; easy as quoted: crystals or powder, two cwt., 15s. 5d.; one cwt., 15s. 10d.; 56 lb., 16s. 1d.; smaller parcels, up to 16s. 6d. per lb.

TARTARIC ACID (B.P. CRYSTALS).—Continues steady: British makers quote at 1s. 1d. per lb., less 5 per cent. discount, dealers offering foreign materials at competitive prices.

THEOBROMINE.—Prices for Continental, pure, two cwt., 7s. 10d.; one cwt., 8s.; 56 lb., 8s. 2d.; smaller quantities, 8s. 4d. per lb.; sodium salicylate, two cwt., 6s. 3d.; one cwt., 6s. 4d.; 56 lb., 6s. 5d.; smaller quantities, 6s. 6d. per lb., delivered, 5-lb. tins free; smaller packages extra.

THYMOL.—Synthetic, fine white, one cwt., 6s.; 56 lb., 6s. 4d.; 28 lb., 6s. 9d.; less than 28 lb., 7s. 6d. per lb., tins extra; ex ajowan seed, one cwt., 8s. 5d.; 56 lb., 8s. 10d.; 28 lb., 9s. 5d.; 14 lb., 10s. 6d. per lb.

VANILLIN.—Convention prices are unchanged: ex clove oil or guaiacol, five cwt., 12s. 5d.; one cwt., 12s. 8d.; 56 lb., 13s.; less than 56 lb., 13s. 2d. per lb.

Crude Drugs, etc.

AGAR.—Not particularly much demand on spot this week, and some sellers do not seem so firm in their prices. There has been a lack of firm shipment offers these last few days; the last figure for Kobe No. 1 was about 2s. 10d., c.i.f.; spot, Kobe, No. 1, sellers at 3s. and possibly a shade less; No. 2, 2s. 9d. to 2s. 10d. Yokohama, No. 1, 2s. 10d. per lb.

ALKANET ROOT.—Dealers are quoting at about 45s. per cwt. for smallish parcels, ex store.

ALOES.—There has been but few indications of shippers' prices for new crop Curaçao this week; the last figure was about 150s. per cwt., c.i.f., with no business recorded. Spot business continues at full prices, with limited supplies in strong hands. Cape steady and unchanged; Cape, spot, 6s. to 6s.; shipment, about 62s. 6d. per cwt., c.i.f. Curaçao, spot, now quoted from 142s. 6d. to 155s. per cwt., as to quality.

ANTIMONY.—Market continues steady: Chinese, crude, spot, £35; shipment, July-August, £30, c.i.f. English regulus, £70 to £71 per ton, ex store.

ARECA NUTS.—Small business; quoted at about 25s. per cwt., ex store.

ARNICA FLOWERS.—Spot supplies in small parcels are quoted at about 1s. 4d. per lb., ex store.

BALSAMS.—Not much inquiry, steady as quoted: *Tolu*, 1s. 8d.; *Canada*, spot, 3s. 6d.; shipment, 3s.; *Copaiba*, Para, 1s. 9d.; *Peru*, 4s. 6d. per lb., spot.

BELLADONNA.—A limited spot business in small quantities: leaves, 55s.; root, 55s. per cwt., spot.

BENZOIN.—Quoted prices continue steady, occasional business: good almonds, seconds, Sumatra, are available at 9os. Siam: medium almonds, £26; bean and pea, £22; pea size, £20 per cwt., ex store.

BUCHU.—The spot demand for new crop leaves is not of much account. Rounds, 1s. 6d. to 1s. 7d. per lb., as to quality and quantity; shipment, about 1s. 5d. A few bales of old leaves to be cleared at keen prices.

CALUMBA ROOT.—Dealers are quoting small spot parcels at about 35s. per cwt., ex store.

CAMPHOR.—Routine spot demand, market steady: Japanese monopoly BB brand, £7 10s. per 100 lb.; this price now officially quoted; Japanese, natural, spot, tablets, 2s. 6d.; powder, 2s. 3d.; slabs, 2s. 3d. per lb., ex store; shipment, tablets, 2s. 2d.; powder, 1s. 11d.; slabs, 1s. 11d. per lb., c.i.f.; English refined flowers, one cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz. and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; ½ oz., ¾ oz. and ¼ oz., 3s. 6d. per lb.

CANTHARIDES.—Steady on a quiet market: Russian, about 4s. 6d.; Chinese, spot, 2s. to 2s. 2d. per lb., as to quantity; shipment, 1s. 7d. per lb., c.i.f.

CARDAMOMS.—Market remains dull and quotations might be slightly shaded: Aleppy greens are quoted at keen prices: Aleppy, green, spot, about 2s. 6d.; shipment, 2s. for f.a.q. Aleppy, seed, spot, 3s. 6d.; shipment, 2s. 10d., c.i.f. Mangalore seed, spot, 3s. 4d.; shipment, 2s. 7d. per lb., c.i.f.

CASCARA SAGRADA.—Shipment quotations for new crop bark in minimum carload lots are being maintained in the region of 34s. per

cwt., c.i.f., but business is not moving in any volume for this market. Old bark on spot is selling quietly at former figures.

CHAMOMILES.—Dealers report a quiet spot demand. Last season's best quality, about 16s.; with seconds at 13s. per cwt. Old flowers from 9s. to 10s. 6d. per cwt., ex store.

CLOVES.—Market is steady at the improved values: Zanzibar, spot, 8½d.; shipment, July-August, 8½d. per lb., c.i.f. Madagascar, in bond, 7½d.; shipment, July-August, 6½d. per lb., c.i.f.

The landings of Zanzibar in London during the week ended July 9 were nil, and the deliveries 32, leaving a stock of 1,464. From January 1 to date the landings of Zanzibar have been 1,800 and the deliveries 1,405. Landings of Madagascar for the week ended July 9 were nil, and the deliveries 40, leaving a stock of 1,388. From January 1 to date the landings of Madagascar have been 1,731 and the deliveries 1,819 packages.

COCOA BUTTER.—Market has been rather quiet: prime English, 8½d. to 9½d. per lb. Foreign, 8½d. to 9d. per lb., as to quantity and quality.

COCONUT (DESICCATED).—Spot market steady, dearer forward: spot, fine, 17s.; medium, 17s. per cwt.; shipment, halves, July-August, 16s. 3d.; October-December, 16s. 6d. per cwt., c.i.f.

COD-LIVER OIL.—Bergen reports the shipment market for Lofoten oil remains dull with quotations steady. Finest Lofoten steam refined, non-freezing medicinal oil, 90s. per barrel, c.i.f. London. Small lots, on spot, about 132s. 6d. per barrel, ex store, duty paid. British finest medicinal oil, 115s. per 25-gallon drum, delivered U.K., with rebates for 25 or more drums.

COLCHICUM.—Dealers' prices unchanged: spot root at about 46s. to 47s. 6d. per cwt., as to quantity.

COLOCYNTH PULP.—Keen quotations for bulk quantities: spot from 1s. to 1s. 3d. per lb., as to quality and quantity.

DAMIANA LEAVES.—New crop leaves are available at about 9d. to 9½d. per lb., ex store.

DERRIS ROOT.—Root testing 17 per cent. ether extract quoted in the region of 7d. to 7½d. per lb., ex store; shipment, 5 per cent. rotenone, 7½d. per lb., c.i.f.

DIGITALIS LEAVES.—Small spot business at steady figures: Continental parcels on spot at 85s. to 90s. per cwt., as to quality.

ERGOT.—The position as regards supplies of new crop is becoming acute. It is reported that up to 5s., c.i.f., has been paid for Portuguese, with practically nothing offered firm, although 5s. 6d. to 5s. 7½d., c.i.f., have been indicated as nominal figures. An offer of Polish or Eastern at 5s., c.i.f., to arrive. No Russian available.

GAMBOGE.—Small inquiry: good Siam pipe quoted at about £13 10s. per cwt., duty paid.

GENTIAN.—Average small spot parcel business. Good clean French root, 37s. 6d. to 38s. 6d.; Continental, 35s. to 36s. per cwt., ex store, as to quantity.

GINGER.—At the better values the market is steadier: West African, spot, 28s.; shipment, for arrival, 25s. per cwt., c.i.f. Jamaican, spot, bold, in barrels, 70s. to 85s.; small grinding, in bags, 45s. to 47s. 6d. per cwt., c.i.f. Cochin, washed, rough, spot, 42s. 6d.; shipment, 36s. 6d., c.i.f. Japanese, 32s. 6d. per cwt., c.i.f.

GUM ACACIA.—The better conditions recorded last week are being maintained: Kordofan, cleaned sorts, spot, 38s. 6d.; shipment, 35s. 6d. per cwt., c.i.f.

HENBANE.—Dealers are doing a small business, quoting in the region of 70s. to 72s. 6d. per cwt., as to quantity.

HENNA.—Market continues firm on very short supply: Egyptian, brown leaves, from 32s. 6d.; green leaves, if available, about 40s. per cwt., ex store.

HONEY.—Not much business, as is usual at this time of the year, but spot quotations are keeping quite steady: new crop Jamaican quoted from 30s. for dark manufacturing up to 45s. for pale set. Californian, duty paid, 52s. 6d. Canadian, firm, at 55s., ex store.

HYDRASTIS.—The shipment market is reported stronger and is now firm as quoted: spot, 2.3 hydrastin, 14s. 9d. to 15s.; U.S.P., 14s. 6d. to 14s. 9d.; and untested, 14s. to 14s. 3d.; shipment, U.S.P., 14s. 3d. per lb., c.i.f.

IODINE.—The crude material has been advanced from 8s. to 10s. per kilo. Convention prices for IODIDES have been advanced.

IPPECACUANHA.—Business quiet: Matto Grosso, B.P., spot, 7s. to 7s. 3d.; shipment, about 6s. 6d. per lb., c.i.f.

IRISH MOSS.—Occasional spot inquiry; quoted about 45s. to 60s. per cwt., for small parcels of the best qualities.

JALAP.—Values are steady: 13.3 per cent., 1s. 1d.; 10.5 per cent., 1s. 1d. per lb., ex store.

JUNIPER BERRIES.—Demand is quiet: good sifted quality on spot at about 25s. per cwt., ex store.

KOLA NUTS.—African halves on spot quoted from 2½d. to 3d. per lb., as to quality. St. Lucia halves, about 4d. per lb., for good bright quality.

LAVENDER FLOWERS.—Good blue flowers are quoted on spot at 1s. 6d. per lb., ex store.

LIQUORICE.—Natural root is available on spot at about 11s. 6d. per cwt. and decorticated at 30s. to 45s. per cwt.

LOBELIA HERB.—Demand rather quieter: 6½d. to 7d. per lb., for good quantities.

LYCOPODIUM.—Market is quiet: dealers are quoting spot supplies at about 4s. 9d. to 5s. per lb.

MANNA.—Dealers are quoting finest selected flake, in 1-lb. tins, 3s. 6d. per lb., ex store.

MENTHOL.—The Japanese product continues firm. The demand has not been quite so brisk, with spot holders of K/S brands requiring 13s. 3d. per lb. There has been an almost complete absence of offers from the source for a day or two; the last figure indicated was 11s. 9d. per lb., c.i.f. Chinese, spot, 12s. 9d., with no shipment offers.

MERCURY.—First-hand distributors of Spanish-Italian report there is no change in the shipment price at 69 dollars per bottle, f.o.b., Continent; spot, £13 18s. to £13 18s. 6d. per bottle, ex store, London.

OPIMUM.—Steady, business quiet: Turkish, original, cases of 170 lb., 13 per cent., 1s. 1d.; Iranian, 12 per cent., 1s. 1d. per unit, landed and duty paid.

PEPPER.—Values for white peppers show a further advance; other descriptions unchanged. Market steady. Lampung, in bond, 2½d.; shipment, August-October, 2½d.; October-December, 2½d., c.i.f. Tellicherry, spot, 4d.; shipment, August-October, 3½s. 6d., c.i.f. Aleppy, spot, 4d.; shipment, August-October, 3½s. 6d., c.i.f. White Muntok, in bond, 4½d.; shipment, August-October, 3½d., c.i.f. London Terminal Market, Black, July, 2½d.; October, 2½d.; White, July, 4½d.; October, 4½d.; December, 4½d. per lb.

PIMENTO.—At the further advance the market is steady: spot, 8½d. per lb.; shipment, July-August, 75s. 6d. per cwt., c.i.f.

POPPY FLOWERS.—Red flowers, new crop, are offering on spot at about 2s. 6d. per lb., for small parcels.

RED ROSES.—New crop flowers are now available on spot and quoted at about 6s. 9d. per lb. in small parcels.

RHUBARB.—Spot values show no change: business on a modest scale this week: Shensi, best quality, 4s. 6d. to 5s.; old, very slightly wormy, 3s. 9d. to 4s.; pickings, about 3s. 6d. Rough round, 2s. 1d. to 2s. 3d. per lb., as to quality; shipment, 1s. 7d. per lb., c.i.f.

RUBBER.—At level prices the market is steadier, business rather better: standard ribbed smoked sheet, spot, 7½d.; July, 7½d.; August, 7½d.; September 7½d.; October-December, 7½d.; January-March, 7½d. per lb.

SAFFRON.—Dealers' prices for the small spot supplies of genuine Valencia continue firm from 90s. to 92s. 6d. per lb., ex store.

SEEDS.—ANISE.—Spot, duty paid, Spanish, 62s. 6d.; Bulgarian, 40s.; Syrian, 39s. **CANARY.**—Market unchanged, prices quoted are spot, duty paid. Mazagan, 17s. 6d.; Morocco, 15s.; Turkish, 16s. 3d.; Plate, 15s. 6d.; Spanish, 25s. to 36s. **CARAWAY.**—Dutch, on spot, 34s. 6d.; duty paid, 28s. 9d., quoted f.o.b. Holland. **CORIANDER.**—Morocco, on spot, is 19s., duty paid, for old crop and 18s. for new crop. For shipment, July-August, 15s. 6d., c.i.f., is quoted. **CUMIN.**—Spot, Malta, 46s., duty free; Morocco, 45s., duty paid. No new crop offering for shipment. **FENUGREEK.**—Morocco, on spot, 12s. 6d., duty paid; for shipment, 10s. 6d., c.i.f. **MUSTARD.**—English, 20s. to 28s.

SENEGA.—Not so much interest shown in the shipment market for new crop: spot, from 2s. to 2s. 1d.; shipment, July-September, 1s. 8½d. per lb., c.i.f., in bulk quantities.

Senna.—Business has been only moderate in volume with all descriptions quoted unchanged. Tinnevelly leaves, spot, fair green, No. 1, 5½d.; No. 2, 3½d.; No. 3, 2½d.; No. 4, 2½d. per lb. Tinnevelly, best quality, hand-picked pods, 6d.; darker descriptions, 3½d. to 4d. per lb., ex store. The arrivals of best quality new crop Alexandrian hand-picked pods are small, and it is certain that it will be difficult to obtain this grade during the next few months: spot, good bold selected, 5s.; No. 1, 4s.; No. 2, 3s.; No. 3, 2s. 3d. per lb. Old crop pods available from 1s. to 2s. 3d. per lb., ex store.

HELLAC.—Values are dearer on the week, market steady, closing firmer: spot, standard TN orange, 41s. to 44s.; fine orange, 55s. to 82s. 6d.; pure button, 52s. 6d. to 55 per cwt. For delivery, TN, August, 41s.; October, 41s.; December, 42s. 6d. For arrival, TN, August-September, 41s. per cwt., c.i.f.

SLIPPERY ELM BARK.—Continues steady, limited spot demand: grading quality, 6½d.; clippings, 8½d.; selected loose slabs, 1s. 2d.; 5-lb. wired bundles, selected quality, from 2s. per lb., ex store.

SQUILL.—Supplies of fair white on spot are offering at about 27s. 6d. per cwt., ex store. New crop, No. 1, white, 22s. 6d. per cwt., c.i.f.

STRAMONIUM.—Dealers' prices unchanged: spot parcels from 35s. to 40s. per cwt., as to quality and quantity.

TONKA BEANS.—Limited demand, steadier: fair frosted Para beans, 3s. to 3s. 1½d. per lb., ex store.

TRAGACANTH.—The demand has again been quiet, with quoted values about unchanged: finest selected white ribbon, £65; No. 1 white, £57 10s. to £60; No. 2, white, £50 to £54; No. 3, white,

£35 to £42 10s.; amber leaf, £22; cleaned amber sorts, £16; brown to amber leaf, £11 10s.; red leaf, £9 to £10; hoggy, £6 to £7 per cwt., ex store.

TURMERIC.—The shipment market for new crop Madras finger continues to be reported firm, with the price at 27s. 6d. per cwt., c.i.f. Spot goods would be from 30s. upwards, ex store.

VALERIAN ROOT.—A little spot business, with dealers quoting small parcels about 37s. 6d. per cwt., ex store.

WAXES.—BEES'.—Market is reported firmer with values tending to recover: Calcutta, bleached, spot, 127s. 6d.; shipment, July-August, 117s. 6d., c.i.f.; ordinary quality, spot, 92s. 6d.; shipment, July-August, 90s. per cwt., c.i.f.; Benguella, in bond, 90s.; shipment, July-August, 80s., c.i.f. Conakry, spot, 100s.; shipment, July-August, 87s. 6d., c.i.f. Dar-es-Salaam, spot, 100s.; shipment, July-August, 90s., c.i.f. **CARNAUBA.**—Business continues quiet; quotations about unchanged: fatty, grey, spot, 150s.; afloat, 145s.; shipment, July-August, 145s., c.i.f. Chalky, grey, spot, 150s.; afloat, 145s.; shipment, July-August, 142s., c.i.f. Primeira, spot, good quality, 190s.; afloat, 175s.; shipment, July-August, 172s. 6d., c.i.f. Mediana, spot, 180s.; shipment, 170s. per cwt., c.i.f.

Essential and Expressed Oils, etc.

A MODERATE volume of business is being transacted, with most values about steady. Anise (Star) on spot is firm, Sicilian hand-pressed lemon remains dull. French Guinea orange is still slack and cheap. Japanese peppermint is firm on spot, with shipment at a premium. Spearmint is dearer.

ALMOND.—Small parcel business on a fair scale; business quiet: English made, cwt. lots, 2s. 8d.; smaller parcels, up to 3s. 2d. per lb.; foreign, cwt. lots, 2s. 8d.; smaller parcels, up to 3s. 2d. per lb.; French bitter, 6s. to 6s. 1d. per lb.

ANISE (STAR).—The spot market is firm, with supplies limited, and oil afloat is thought to be small in quantity. The demand this week has been quieter, but holders' prices are firm: spot, leads, nominal; tins, 3s. 8d.; drums, 3s. 6d. per lb., ex store; shipment, tins, July, 3s. 4d.; July-August, 3s. 3d. per lb., c.i.f., with very few offers being made.

AVOCADO PEAR.—Dealers' prices continue at former prices: Californian oil quoted from 46s. 6d. to 53s. per gallon, as to quantity, ex store.

BERGAMOT.—Business of small account, quotations unchanged at about 14s. 9d. per lb., c.i.f., for bulk quantities. Genuine new crop oil on spot is offered at 15s. to 15s. 6d. per lb., with blended oils at cheaper figures.

BOIS DE ROSE.—Demand remains negligible: drums of Brazilian oil about 5s. 6d., with small re-packed lots up to 6s. per lb., ex store.

CAJUPUT.—A limited amount of small spot business: B.P., 2s. to 2s. 4d. per lb., as to quantity.

CAMPHOR.—Isolated cheap offers on spot: Japanese and Chinese white oils at about 102s. 6d. up to 107s. 6d. per cwt., in drums, as to seller; shipment, Japanese, 89s., c.i.f. No Chinese offered.

CANANGA.—Market continues dull and rather easy as quoted: spot, 4s. 10 $\frac{1}{2}$ d. to 5s. 6d., according to quantity and packing; shipment, 4s. 4d. per lb., c.i.f.

CARAWAY.—Market is steady with a moderate business reported. Dutch rectified, 7s. 3d. to 7s. 9d.; crude, 6s. 9d. to 7s. per lb., landed and duty paid, as to quantity.

CASSIA.—Dull and rather easy as quoted on spot: spot, good quality oil, 3s. 2d. to 3s. 3d. in leads; off-quality, about 3s. per lb. Shipment market is lifeless; leads, 2s. 10 $\frac{1}{2}$ d.; drums, about 2s. 9d. per lb., c.i.f.

CEDARWOOD.—Occasional inquiry, quoted steadily: African, in drums, 11 $\frac{1}{2}$ d.; smaller packages, up to 1s. 4d. per lb. American, in drums, 11 $\frac{1}{2}$ d.; smaller packages, up to 1s. 4d. per lb.

CINNAMON LEAF.—Rather easier on spot on account of the weak forward market: Ceylon oil, repacked and filtered, 2s. 6d. to 3s. per lb., ex store. Shipment quotations for bulk lots in drums are at keen figures.

CITRONELLA.—Business of little consequence; values are about unchanged: Ceylon, spot, drums, 1s. 5 $\frac{1}{2}$ d.; smaller parcels, up to 1s. 9d.; shipment, drums, 1s. 3 $\frac{1}{2}$ d. to 1s. 4d. per lb., c.i.f. Java, spot, drums, 1s. 10d. to 11s. 11d.; smaller parcels, up to 2s. 4d.; shipment, drums, about 1s. 4 $\frac{1}{2}$ d. per lb., c.i.f.

CLOVE.—Quotations for Madagascar oil are steadier at the recent reductions: Madagascar, spot, drums, 2s. 9d.; repacked in small parcels, 3s. to 3s. 3d. English, distilled, 4s. 6d. up to 4s. 10 $\frac{1}{2}$ d. per lb., as to quantity.

EUCALYPTUS.—Shipment quotations for bulk quantities are competitive, limited business: Australian, 70 to 75 per cent., tins, 1s. 5d. to 1s. 5 $\frac{1}{2}$ d.; drums, 1s. 4 $\frac{1}{2}$ d.; 80 to 85 per cent., drums, 1s. 9d. per lb., ex store; higher prices for small lots on spot; shipment, 70 to 75 per cent., tins, 1s. 2 $\frac{1}{2}$ d.; drums, 1s. 2d.; 80 to 85 per cent., 1s. 6d. per lb., c.i.f.

GERANIUM.—A limited business passing, with prices varying as to quality of the oil: Bourbon, spot, 12s. to 12s. 6d.; shipment, 1os. to 1os. 6d., c.i.f. Algerian, spot, about 13s.; shipment, about 11s. 9d. to 12s. per lb., c.i.f.

GRAPE-FRUIT.—Spot demand for small quantities continues: Californian, 1os. 3d. to 12s. Florida, 11s. to 12s. 6d. per lb., as to quantity.

HO (SHU).—The demand on spot is restricted: spot, "improved" quality, 4s. to 4s. 1d.; "extra," 4s. 3d. per lb., in drums, smaller lots at higher prices, ex store; shipment, "extra," 4s. per lb., c.i.f.

JUNIPER BERRY.—Dealers report a limited demand, with prices ranging from 3s. 3d. up to 4s. per lb., as to quality and quantity.

LAVENDER.—No prices indicated for coming new crop oils, but quotations from the source for old oils are fully steady: French, 38 to 40 per cent., spot, 12s. 6d. to 14s. per lb., ex store. Lavandin, 5s. 6d. to 6s. per lb., with blended oils at cheaper figures.

LEMON.—Business on spot and for shipment in Sicilian hand-pressed oils continues at a minimum, with prices barely maintained: spot, 10s. 9d. to 11s. 4d., ex store, for genuine new crop oils, with old and blended oils at cheaper figures. Shipment is about 10s. 9d. per lb., c.i.f., in bulk quantities. Californian distilled oil is selling fairly well at 6s. 4d. per lb., in small drums, landed. Sicilian, machine-made, 10s. 6d., c.i.f.

LEMONGRASS.—Spot supplies meet with small demand, with drums from 1s. 8d. to 2s. for small parcels. Shipment market dull.

LIME.—West Indian distilled oil on spot is steady at 24s. to 26s. per lb., ex store, with a moderate demand reported.

MANDARIN.—Not much inquiry on the market: finest quality oil at about 19s. to 20s., c.i.f., with other qualities from 17s. 6d. per lb., c.i.f.; small lots on spot from 20s. to 22s. 6d. per lb., as to quantity and quality.

NEROLI.—Prices from the source for new crop oil are keeping quite steady and range from 25s. to 28s. per oz., as to shipper, landed.

NUTMEG.—A quiet spot demand, with quotations steady: Dutch and American oils quoted from 5s. 4 $\frac{1}{2}$ d. for bulk lots up to 5s. 9d. per lb. for small parcels.

OLIVE.—Market is firm at the advanced prices now quoted: edible, ten 1-gallon tins, 7s.; twenty $\frac{1}{2}$ -gallon tins, 8s. per gallon, ex store.

ORANGE.—The spot demand for French Guinea oil is still of little importance, while quotations are keen: spot, would now be available at about 2s. 11d. to 3s. and re-packed oil, in tins, at about 3s. 3d. to 3s. 4 $\frac{1}{2}$ d. per lb., ex store. Shipment from the source is mentioned at about 2s. 6d., c.i.f., with no interest shown. Oil in bond is available at about the same figure. Californian is steady at the recent reduction of 20 cents; spot, one case, 3s. 7 $\frac{1}{2}$ d.; two or more cases, 3s. 5d.; large drums, not quoted; small drums, 3s. 4d. per lb., landed; cold-pressed, 5s. 3d., c.i.f., in cases.

PALMAROSA.—Business quiet, quotations nominally unchanged: spot quoted about 8s. to 8s. 3d. for original packages; shipment, 7s. 3d. per lb., c.i.f.

PATCHOULI.—Occasional small spot demand, market is competitive: Singapore, spot, about 13s. 7 $\frac{1}{2}$ d. to 13s. 10 $\frac{1}{2}$ d.; shipment, 12s. 9d. per lb., c.i.f. Seychelles, spot, 11s. to 11s. 3d.; shipment, 10s. 3d. per lb., c.i.f.

PEPPERMINT.—The Japanese product has met with a steady spot demand at full prices, but the market is now quieter, with holders requiring about 4s. 10 $\frac{1}{2}$ d. per lb., ex store; there may be an odd lot slightly less. Very few shipment offers this week, and prices are firm at 4s. 11d. per lb., c.i.f., up to August. There may be a seller of oil afloat at 4s. 9d., c.i.f. American natural oil, in drums, is firm and again quoted dearer at the source. Quoted from 2 dollars 15 cents to 2 dollars 35 cents per lb., c.i.f.

PETITGRAIN.—Moderate inquiry, with quotations rather competitive on spot, with cases at about 3s. 9d., while other quotations are up to 3s. 11d. per lb.; shipment, 3s. 1 $\frac{1}{2}$ d. to 3s. 2d. per lb., c.i.f., as to shipper. French oil is offering to come forward at 600 francs per kilo, landed, in bulk quantities.

ROSEMARY.—Business is reported to be fair, with values steady: Spanish oil, about 3s. up to 3s. 7 $\frac{1}{2}$ d. per lb., as to quality and quantity. No definite shipment offers from the source. New crop Tunis oil, to come forward, 2s. 8d. to 2s. 10 $\frac{1}{2}$ d. per lb., landed, as to quantity.

RAISIN SEED.—Occasional inquiry, with quotations steady: California, spot, 2s. 4d. to 2s. 6d. per lb., ex store.

SANDALWOOD.—Genuine East Indian Mysore, in one-case lots, continues steady at 20s. 6d. per lb. Genuine East Indian, produced outside the province of Mysore, 18s. 3d. to 18s. 6d. per lb., c.i.f., in bulk quantities. English-made West India, 7s. 3d. per lb. Australian, steady at 15s. 3d. per lb., for 7-lb. tins; one case at 14s. 9d. and five cases at 14s. 6d. per lb.

SASSAFRAS.—Spot market has been quiet: good quality oils selling at up to 4s. 3d.; other oils, from 3s. 6d. per lb., ex store.

SPERMINT.—Market is reported firm at a sharp advance at the source: U.S.P. oil, spot, 9s. 3d. to 9s. 6d. for cases, as to seller; shipment is firm at 8s. 6d. per lb., c.i.f., for good brands.

SPIKE.—A little more inquiry reported on spot: Spanish oil is steady from 5s. 6d. to 6s. per lb., as to quantity. Blended oils at cheaper prices.

WORMSEED.—Market steady, business quiet: spot, U.S.P. oil, 11s. 4 $\frac{1}{2}$ d. to 11s. 6d.; B.P., about 12s. 3d., as to quantity; shipment, U.S.P., 10s. 10d. per lb., c.i.f., in bulk quantities.

Correspondence

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

The P.A.T.A. and the Pharmacist

SIR,—Your editorial on the "P.A.T.A. and the Pharmacist" in last week's issue was interesting, but you did not mention the fact that price maintenance, whilst no doubt very valuable to the chemists, is to-day equally valuable to manufacturers, because it is the protected price alone that makes the other hundred thousand vendors interested in selling proprietary articles. I believe firmly in price maintenance, but it is on a successful Chemists' Friends scheme that I rely to protect my business now and in the future.

Yours faithfully,
E. A. BROCKLEHURST.
Hull.

Reconciling Two Schemes

SIR,—The retail chemist, who already has sufficient problems to contend with in the daily routine of his business, is now to be faced with another in the shape of reconciling his support of both the C.F. and P.A.T.A. schemes. In supporting the former he is expected not to receive bonus offers on account of window displays for goods not on the C.F. list, but to the lines on the P.A.T.A., other conditions being equal, he is supposed to give his best consideration. It might be held that if the products are not also C.F., then the conditions are not equal, but how can a chemist give his fullest support to those proprietary manufacturers who place their products on the P.A.T.A. list unless he shows their goods? And if he uses his window for their display he requires some additional payment for the valuable space, which extra payment can only be obtained by taking advantage of the bonus parcels, with which a window show is a conditional part of the offer. On the other hand, although the P.A.T.A. was started by and for chemists, it may be presumed that the minimum retail price does not apply only to retail pharmacy, but is also intended to be the price at which the goods shall be distributed to the public in whatever class of shop they may be sold. If this were not so, then the P.A.T.A. would merely constitute a handicap on the chemist in his competition with other retailers, but a fixed price which holds good everywhere is to the advantage of all parties.

Yours faithfully,
JOHN TANNER (11/7).

Pharmacists in the Army

SIR,—For years the Pharmaceutical Society has endeavoured without success to obtain the rank of a commissioned officer for pharmacists in the Army. Now it would seem that as part of the scheme for national defence the authorities are asking for the services of pharmacists, who would be granted the rank of sergeant. This is reported in two instances, one at the last Council meeting (*C. & D.*, July 9, p. 31) and one at the North British Branch (p. 32). The reply from the secretary of the Society was quite definite, but in the other case it was considered advisable to give any assistance in securing the services of a qualified pharmacist, but without prejudice to any question that might arise later as to rank. This seems to me to be a mistake; pharmacists in the Army should be granted commissioned rank from the start, not only on account of the responsibility involved, but also because of the extra authority such rank would carry with it, and a further reason is the equality of status it would give with pharmacists in other armies with whom this country might be in alliance. Thus the present is a most opportune time to press our claim—while the services of pharmacists are being invited, as to assure the service without settling this point first can only mean that the question will be shelved as soon as the required number of pharmacists are enlisted. There is another side to the question. Mention is made in the report of the Council meeting of the War Office scheme for taking over by the military authorities certain civil hospitals in the event of a national emergency, and that these hospitals may possibly have 600 beds. Have not hospitals of this size a pharmacist already on the staff? If so, what would be his position when the hospital was acquired by the military?—Yours faithfully,

APOTHECARY (10/7).

An Ironical Precept

SIR,—I was glad to see the paragraphs beginning with the heading "An Ironical Precept" on p. 28 of your last week's issue. It is, I believe, a well-established principle of legal practice that penal statutes must be construed strictly; if that is so, the question in the event of a pharmacist being summoned to defend in court some technical breach of a Poisons Rule would not be whether he had used his common sense but whether he had done what the Rule ordered. By way of footnote to the quotation from a speech by Sir William Glynn-Jones I may mention that in conversation with me some months before the date of that utterance he intimated that he never liked to speak without preparation. I believe, therefore, that in a speech of such importance he was not improvising, but had decided in advance substantially what he was going to say.—I am, etc.,

HEDGEROW (11/7).

British Drugs in India

SIR,—It is not often that British firms make a study of Indian conditions or adopt a policy in accordance with the local requirements. A policy has, in some instances, been adopted of applying methods unsuitable in a country vastly different from colonial or European markets. The recent innovation of some British manufacturers of consolidating distribution in their own hands is referred to. It may be that the manufacturers' intention is no more than to correct irregularity of distribution and to stop the vagaries of fluctuations, but the wholesale dealer sees in it a policy of reducing his activities to negligible proportions. In the study of the Indian market the factors that call for attention are the total absence of any statutory or voluntary control of the profession or trade or price-protection associations. Competition is therefore rampant. The average wholesale profit upon drugs, inclusive of sundries, varies between $\frac{1}{2}$ to $2\frac{1}{2}$ per cent. and seldom exceeds 5 per cent. In a number of well-known proprietaries it is always the "price of the empty case." The menace of the "cutter" is more acute here than elsewhere, because, obviously, the next stage lies in the field of illicit trade or adulteration, which are rendered easy by the absence of any statutory or voluntary control. Under such conditions the only consolation for the wholesale dealer lies in low overheads and prospects of a large turnover from the sales of the widest possible range of goods. India is a rural country full of small villages. The turnover of pharmacists is bound to be limited, on top of which comes the problem of delivery. Delivery expenses being high constitute an important consideration. Under the circumstances it is essential to make one consignment of the retailer's entire requirements, which renders the position of wholesale houses practically unassailable. It is suggested that the policy referred to of some British manufacturers will, on the one hand, restrict the volume of sales of their goods and, on the other, prove to be inefficient and uneconomical in catering for such a market as India, for the following reasons:—

- (1) Increased overheads, office and establishment expenses, canvassers, etc., and the cost of European supervision.
- (2) The risks of a large amount of frozen credits. Indian retail trade is essentially a credit business.
- (3) The manufacturers may meet opposition from an important section which has hitherto provided an efficient and productive service to manufacturers. The wholesale dealers complain of the harshness of the new policy and have on a number of occasions formed defensive fronts. Most of the British manufacturers are now well-known in India, chiefly through generations of co-operation with the Indian wholesale houses. Therefore, whatever device may be adopted to ensure better business, let nothing be done that would undo the traditional connexions between the manufacturing and wholesale houses or retard the progress of economical co-operation between India and Great Britain.—Yours truly,

INDEX (4/6).

If the subscriber who wrote to the Editor on July 8, enclosing a newspaper cutting, with certain lines marked in red ink, will forward his name and address, the matter will receive attention.

Miscellaneous Inquiries

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them

H. & C. (29/6).—COMPOSITION ESSENCE.—The following formula is given in "Pharmaceutical Formulas," Vol. I:—

Composition powder	5xv.
Proof spirit (57 per cent.)	5xx.
Glycerin	5v.
Water	5x.

Macerate for four days and press out the liquor. Mix the marc with a pint of water, and again press. Mix the liquors, and reserve. Boil the marc in half a gallon of water, containing potass. carb. 5ij., for ten minutes, and strain 2 pints; when cold add this decoction to the reserve with 3 oz. of rectified spirit and water to 80 oz. Filter.

Composition powder is made as follows:—

Bayberry,	
Hemlock spruce bark,	
Ginger	of each 4 oz.
Golden seal,	
Sassafras	of each 2 oz.
Cayenne,	
Clove	of each $\frac{1}{2}$ oz.

W. G. H. (8/7).—ICE CREAM POWDERS.—There are two main types of ice cream powders: dairy (cold mix) and custard (hot mix). Respective formulas are as follows:—

Dairy	Custard
Milk	1 $\frac{1}{4}$ pints
20 per cent. cream	5 pints
Granulated sugar	1 $\frac{1}{2}$ oz.
Sweet condensed skim milk	23 oz.
Powdered gelatin	1 oz.

Flavour as desired.

The following recipes are given in the tenth edition of "Pharmaceutical Formulas":—

I

Powdered starch	1 oz.
Powdered sugar	1 oz.
Orange dye	to tint
Essence of almond	10 m.
Essence of vanilla	10 m.

Mix well and sift. This quantity is sufficient for a pint of milk, with which it is to be mixed, then brought to the boil, and when cold put in the freezer. Other colouring and flavours may be used, according to the kind of ice cream desired.

II

Powdered starch	1 oz.
Rice flour	1 oz.
Sugar in powder	1 oz.
Essence of vanilla	10 m.
Colour	a sufficiency

This amount is sufficient for two pints of milk.

F. R. (24/6).—DOG SHAMPOOS.—An informative article on this subject appeared in the *C. & D.*, 1937, II, p. 425. The following are typical formulas mentioned in the article:—

Soft soap	20
Industrial spirit	10
Distilled water	70

Perfume and colour, as desired.

Saponin may be incorporated if desired to increase the frothing of the shampoo. The following formula is a liquid soapless shampoo which is prepared from the triethanolamine derivative of sulphonated lorol known as sulphonated lorol T.E.:—

Sulphonated lorol T.E.	27
Distilled water	73

Perfume and colour, as desired.

Other formulas for dog shampoos are given in "Pharmaceutical Formulas," Vol II.

L. & B. (19/48).—FLOOR POLISHES.—The following are formulas for the solid type of floor polish:—

(1) Hard paraffin	15 oz.
Ceresin	10 oz.
Oil of turpentine	45 oz.
(2) Stearic acid	5 oz.
Hard paraffin	10 oz.
Ceresin	10 oz.
Oil of turpentine	45 oz.

R. B. (17/48).—SMOKING HABIT.—One of the most drastic courses for this purpose is the use of a mouth wash consisting of a weak solution of copper sulphate or moistening the cigarette end with a few drops of the solution. The repugnant taste produced in the mouth by the combination resulting from the action of tobacco smoke on the copper sulphate may be removed by rinsing the mouth with lemon juice or vinegar. Another successful method is the use of a mouth wash consisting of dilute hydrogen peroxide solution with a small amount of tannic acid.

G. C. W. (India) (24/6).—EYE LOTION.—An eye lotion containing 0.1 to 0.5 per cent. of zinc sulphate is useful for the relief of irritation. The following is a formula which will provide a basis for you to work upon in producing an eye lotion of the kind you have in mind:—

Boric acid	2 dr.
Zinc sulphate	10 gr.
Distilled witch hazel	2 oz.
Glycerin	$\frac{1}{2}$ oz.
Distilled water	to 20 oz.

W. T. (16/48).—FABRIC CLEANING CREAM.—The following formula for a cream suitable for cleaning fabrics may meet your requirements:—

Ammonium oleate	2 oz.
Solution of ammonia	2 oz.
Ether	1 oz.
Benzin	5 oz.
Chloroform	1 oz.

Mix the solution of ammonia and ammonium oleate; shake well and add the ether; shake and add 5 oz. of benzin; agitate thoroughly. Then add 1 oz. of chloroform and shake well. Allow to stand a few minutes and shake at intervals, when a mixture having the consistence of cream and showing but little tendency to separate will result.

Retrospect of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," July 14, 1888

Military Compounders of Medicine

Being flooded with inquiries as to rates of pay, uniform, etc., of the M.S. Corps, will you kindly insert the following:—

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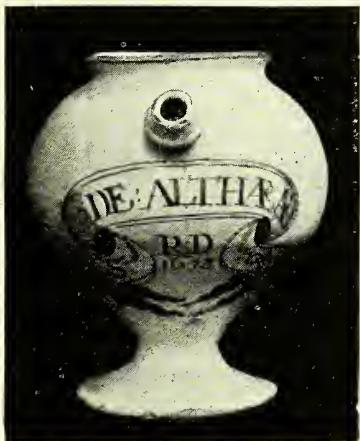
Recruiting is only temporarily suspended.

Before being examined for dispenser one must pass through a course of ambulance and other drill, professional lectures, outlines of anatomy and physiology, bandaging, use of instruments and appliances, application of dressings, etc., and nursing generally. [From a letter to the Editor.]

July 16, 1938

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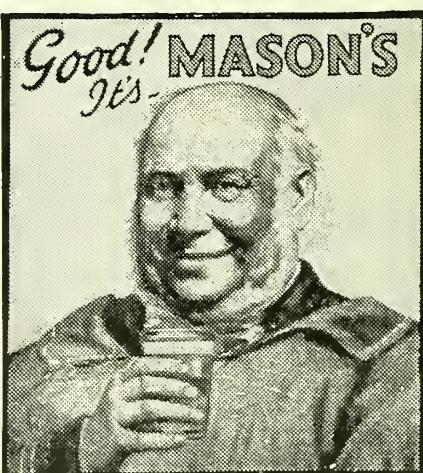
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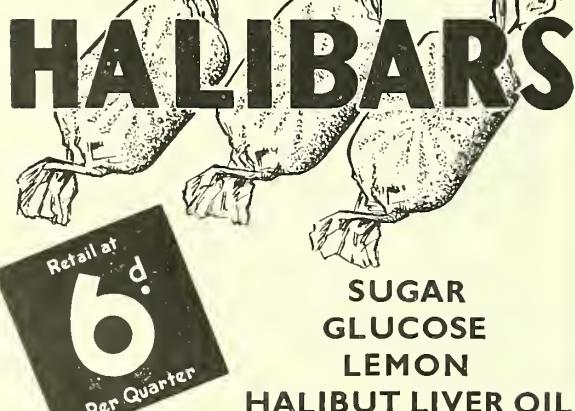
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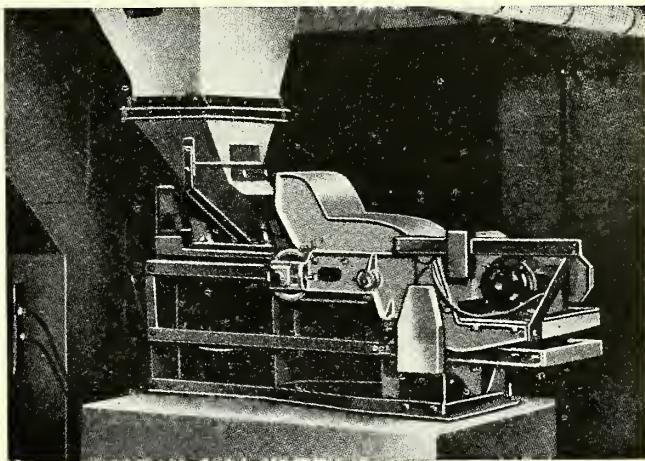
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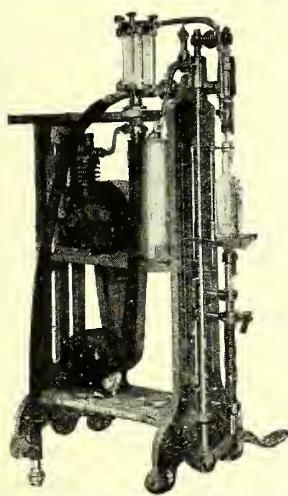


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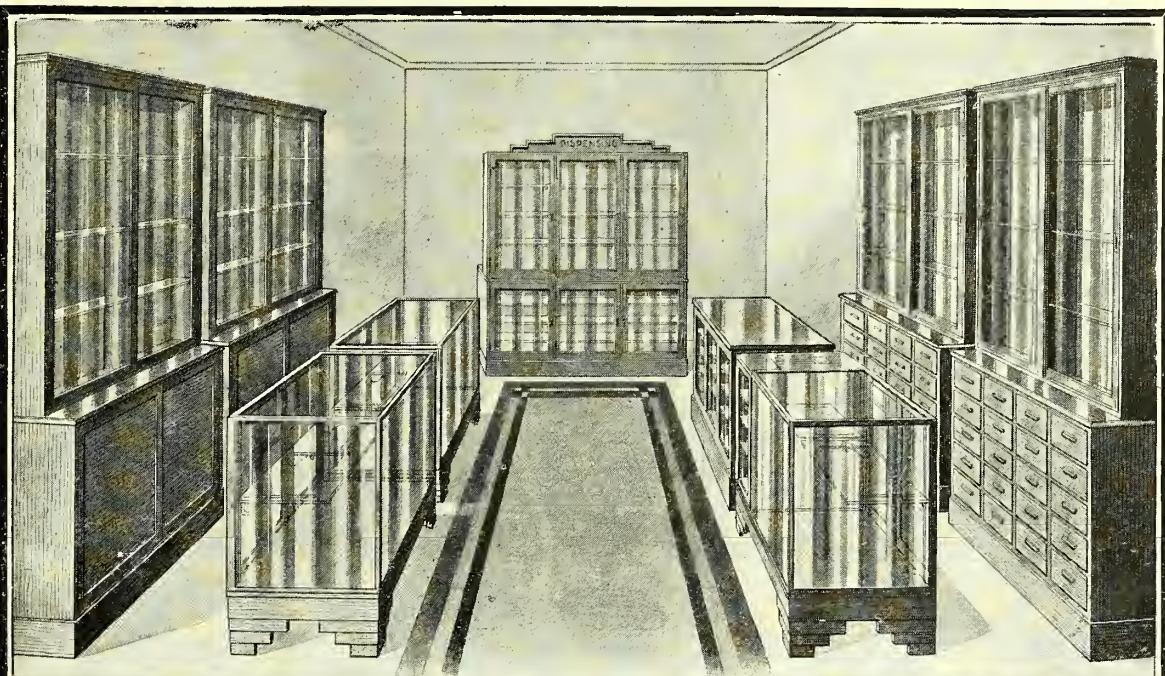
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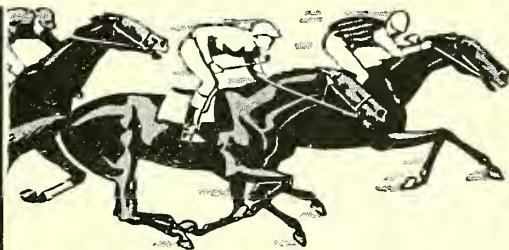
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Half gross of either size is the minimum order accepted for bonus purposes.

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Quarter gross order ...	Bonus $\frac{1}{2}$ dozen packets
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The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

28 ESSEX STREET, LONDON, W.C.2

JULY 16,
• 1938 •

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2.—MEDITERRANEAN SHORES.—English Pharmacy for disposal; turnover averages over £100 per week; very low rental; net profit over £1,300 per annum; no income tax; exceptional opportunity for young man or two in partnership; vendor retiring; price required £4,500 all at or £1,250 plus the value of the stock and fixtures; banker's reference with application, please.

3.—MIDDLESEX.—Good Middle-class General Retail Business for sale owing to family reasons; turnover £2,000 per annum; scope to do £3,000; beautifully fitted pharmacy, well stocked; inclusive purchase price required £1,550.

4.—FULHAM.—General Cash Retail Business; in present hands 10 years; takings approximately £1,000 per annum; net profit £288; sublets practically cover rental; inclusive purchase price asked £600.

5.—LEYTONSTONE.—Middle-class Business in main road; takings last year £2,344; beautifully fitted pharmacy; modern living accommodation; offers invited; genuine reason for sale; price for goodwill and valuable lease about £200; stock and fixtures at valuation; stock about £700.

6.—ACTON.—Family Retail Business for sale; increasing turnover, last year £1,300; net profit £350 approximately; rent only £10 per annum; rates £31; long lease; inclusive purchase price £650, or near offer. Early sale desired.

7.—MID-KENT.—Family Retail Business; takings approach £2,000 per annum; fixtures estimated to be worth £200 and stock £600; very nice living accommodation with beautiful garden; inclusive purchase price asked £1,350.

8.—UPMINSTER.—General Cash Retail Business with Optical connexion; turnover about £2,300 per annum; net profit £500 per annum; lock-up shop; long lease at reasonable rental; inclusive purchase price £1,400; £1,500, of which sum £500 is in respect of the lease and goodwill; vendor desires to sell quickly and will accept first reasonable offer.

9.—FINCHLEY (NEAR).—Family Retail Business; takings for last completed financial year £2,300; chartered accountant's figures; splendid living accommodation; National Cash Register; inclusive purchase price £1,450; new lease.

10.—BOURNEMOUTH (RETIREMENT VACANCY).—Good-class Business offering considerable scope; in present hands 14 years; turnover about £800 per annum; spacious living accommodation; purchase price asked £750; stock and fixtures worth £650; offers invited; part-payment terms considered.

11.—BLACKPOOL.—Two Businesses for immediate disposal, one as a Drug Store; takings £25 and £20 per week, respectively; inclusive purchase prices about £700 and £425; full particulars upon application; scope in the hands of managing proprietors; offers invited.

12.—BARNESLEY (NEAR).—General Cash Retail Business with excellent Panel for disposal owing to vendor purchasing a business on the South Coast; takings £1,562; net profit £411; stock £400; nice living accommodation; price required for the lease and goodwill £200; fixtures £200.

13.—HASTINGS (NEAR) (RETIREMENT VACANCY).—Good-class Business; takings approximately £1,850 per annum under management; net profit to managing proprietor about £450 per annum; excellent living accommodation; new lease; inclusive purchase price about £1,000; scope.

14.—BRIGHTON.—Good-class Chemist Retail Business; old established; takings for last completed financial year £1,830; excellent living accommodation; fair stock; price asked about £850 all at; full particulars on application.

15.—SOMERSET.—Village Business for sale; takings last year £1,025; net profit £300; price required for the business about £575; no year opposition; spacious living accommodation; property can be purchased or leased; price for property £675, or rent £52 p.a.

16.—CHELMSFORD.—General Retail Business in excellent position; takings this year £2,300; gross profit nearly 40 p.c.; rent £150; inclusive purchase price required £1,650; dissolution of partnership; net profit about £600 per annum to managing proprietor.

17.—EPSOM (NEAR).—General Retail Business taking about £3,000 per annum; valuable lease; excellent fixtures; heavy stock; increasing turnover; genuine reason for sale; inclusive purchase price about £1,800 or near.

18.—NORTH WOOLWICH (RETIREMENT VACANCY).—Cash Drug Store showing a net profit of approximately £300 per annum; proper books kept; rent of shop only £21 per annum; attractive fixtures and good, clean, saleable stock; sacrifice price £400; excellent opportunity for young qualified pharmacist.

19.—EASTERN COUNTIES (DEATH VACANCY).—General Retail Business occupying important position in City; turnover last year £707; net profit £270; stock £178; rent only £50 per annum; inclusive purchase price required £250.

20.—HARRINGAY.—Well-established Middle-class Business for sale; increasing turnover, last year under management £1,660; G.P. £664; excellent living accommodation; stock and fixtures worth £650; reasonable purchase price asked; part payment terms entertained £300 cash down; further details upon application.

21.—WIMBLEDON (NEAR).—Main Road General Retail Business run under management; takings last year £1,382; stock worth £600, can be reduced to suit purchaser; nice living accommodation; rent £110 per annum; very reasonable purchase price; part payment terms entertained. No sum is being asked for the goodwill.

22.—HUDDERSFIELD (NEAR).—Light Retail Business with N.H.I. £230 per annum; turnover last year £836; net profit £260; inclusive purchase price required £475; rent only £35 per annum; stock worth £325.

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(C5) CLAPHAM (NEAR).—Attractive well fitted Pharmacy, with genuine scope for increase; turnover upwards of £1,500 per annum; gross profit about 35 per cent.; living accommodation, which has recently been redecorated; price £850, including stock (£450-£500), and fixtures (about £200); reasonable offer considered.

(C6) GOOD CLASS SEASIDE RESORT (NEAR CHICHESTER).—For sale owing to retirement; turnover for 1937, £1,507; net profit £300; rent £70, including living accommodation; 25-year lease; price by negotiation.

(C7) ENFIELD.—Good-class Business, with no near opposition; owner must sell immediately as he is waiting to take up a position and is prepared to dispose at a big sacrifice; turnover approximately £1,300 per annum; excellent modern flat; stock and fixtures estimated at £500; price all-for immediate transaction £525.

(C8) ILFORD.—£450 all-in will purchase business possessing excellent scope with personal attention; turnover for last financial year, £1,200; rent £85; stock and fixtures alone estimated at £600; excellent opportunity for chemist with limited capital.

(C9) HARROGATE.—Well-established and easily conducted business for immediate sale owing to genuine internal circumstances; turnover for 1937, £1,295; rent £50; stock and fixtures estimated at £680; price all-at £780 or reasonable offer.

(C10) HARROW (DEATH VACANCY).—High-class Pharmacy with increasing turnover; returns for 1936-37, £2,264; gross profit £775; living accommodation at present sublet; price £1,250 or offer, including stock and fixtures estimated at £1,140.

Bank Chambers, 329 High Holborn, London, W.C.1
Telephone Nos. : Holborn 7406 & 7407 (2 lines)
County Bldgs., Bridge St., Walsall Telephone : Walsall 3774

(C11) SIDCUP.—Middle-class business showing steadily increasing turnover; returns for last financial year, £1,925; rent £150, including self-contained flat; lease 16 years to run; price all-at £650, or reasonably near offer.

(C12) LEYTONSTONE (NEAR).—Main-road business with living accommodation; turnover for 1936-37, £1,451; gross profit £617; good N.H.L.; rent £65; lease 14 years unexpired; genuine scope; owner retiring; price £750 all-in at reasonable offer considered.

(C13) LIVERPOOL.—City Business with steadily increasing turnover; returns for 1937, £2,510; this year is expected to reach £3,000; very reasonable net rental; excellent position, near to leading multiples; price £1,250, including stock £600; valuation terms if preferred; part can remain.

(C14) BEXHILL-ON-SEA (RETIREMENT VACANCY).—Good-class family and dispensing business; turnover upwards of £1,200 per annum; net profit about £340; rent £45; price by negotiation.

(C15) LIVERPOOL.—Branch business established over 60 years; turnover approximately £1,500 per annum; rent £65; good scope; price £550-£600, according to value of stock, part of which could remain.

(C16) HACKNEY.—Excellent profit-earning business with good house, including garden; turnover averaging at the rate of approximately £1,800 per annum; gross profit about 40 per cent.; rent £100; rates £26; lease 20 years unexpired; price £850-£900 all-in; part could remain; £300-£400 down and balance by arrangement.

(C17) £100 DOWN AND BALANCE OVER A PERIOD, will purchase a business in South-West London showing returns of approximately £1,400 per annum; reasonable rental; excellent scope under personal proprietorship.

(C18) GLOUCESTERSHIRE (DEATH VACANCY).—Old-established business with living accommodation; rent £80 or property can be purchased at very reasonable figure; little opposition; price £850 all-at.

(C19) BOURNEMOUTH.—Attractive and well-fitted Pharmacy with excellent living accommodation; main-road position; turnover approximately £1,400 per annum; net profit about £260, but these figures represent no criterion of possibilities; price all-at £700, representing little more than value of stock and fixtures.

(C20) MERSEYSIDE (RETIREMENT VACANCY).—General cash business with good N.H.L.; turnover for 1937, £1,333; net profit £385; property can be purchased or lease will be granted at a rental of £70 per annum; in present hands during past 26 years; price all-at £800.

(C21) PRESTON.—Prominently situated Pharmacy of fairly recent establishment; now doing at the rate of about £1,000 per annum, and steadily increasing; good living accommodation; rent £52; price £600 all-in.

Valuations for transfer, probate, income tax, etc., promptly executed at economical rates

BERDOE & FISH

CHEMISTS' VALUERS AND TRANSFER AGENTS,

41 Argyle Square, KING'S CROSS, W.C.1

(One minute from St. Pancras and King's Cross Stations.)

1.—SOUTH COAST.—Good middle-class Business, in main road position; returns £1,750; net profit £400; modern premises; well stocked; price about £1,100.

2.—NORTH MIDLANDS.—Light Retail Business, in market town; returns £1,620; net profit £350; stock and fixtures worth approximately £700; price £750; worth attention.

3.—YORKS. (W. RIDING).—Old-established Business under manager and neglected; returns about £750, was doing £1,300, and can again; low rent; owner retiring; price £550 or valuation; stock reduced to suit purchaser.

4.—HERTS.—Good-class Business in busy town; main road position; returns over £1,400; scope for increase; modern Pharmacy, fully stocked; price £925 or near offer.

5.—ESSEX (12 miles out).—Very profitable Cash Retail, with good panel; returns £1,900 under manager; scope for increase; good house, garden and garage; price £800 or valuation terms.

6.—WESTCLIFF (NEAR).—Good middle-class Business, in good main road position; returns £1,172; books audited; rent £78 clear; bold corner shop, well stocked; price £600 or valuation.

7.—LANCS COAST.—Light cash Retail, in good position; returns £1,850, at good profit, books audited; large corner shop; price £1,050, including full season's stock.

8.—GLOS (MARKET TOWN).—Well-established light retail; returns £1,100, under elderly owner; rent £60; good house and garden; price £200, plus valuation of stock and fixtures.

9.—WEMBLEY (NEAR).—Good middle-class Business in growing district; returns £1,500, plus £160 from Post Office; no near opposition; large Pharmacy, well stocked; price £1,000 or near offer.

10.—SURREY (SUBURB).—Middle-class Business, easily run; takings about £1,000, plenty of scope; low rent, long lease; corner shop; well stocked; price £400.

11.—TOLLINGTON PARK (NEAR).—Old-established Drug Stores in densely-populated district; returns about £800 under female; plenty of scope in Qualified hands; price £275 or first reasonable offer.

LOWEST TERMS FOR STOCKTAKING

Established, 1870.

Telephone : Terminus 3574.

THE ASSOCIATION OF MANUFACTURING CHEMISTS, LIMITED

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KIMBERLEY HOUSE, and at EXCHANGE CHAMBERS,
Holborn Viaduct, LONDON, E.C.1
2 Bixteth St., LIVERPOOL.

PARKIN S. BOOTH, Valuer. Tels.: CITY 3691 (4 lines).
VALUATIONS. SALES OF BUSINESSES. STOCKTAKINGS.
Enquiries Invited.

BUSINESSES FOR DISPOSAL

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

BRISTOL.—Vendor, otherwise occupied, desires early sale; will accept low figure, with stock and fixtures at valuation, and arrange favourable lease, or all in price, property and business; well-populated district; modern property; good living accommodation; opportunity for young Chemist-Optician, or as branch. 234/26, Office of this Paper.

CORNWALL.—Attractive established seaside Chemist's and Optician's Business, showing excellent profits, together with a sub-Post Office, salary £180 per annum; good living accommodation; splendid position; part purchase can remain. Particulars, Champion, Agents, Camborne.

ESSEX.—Exceptional opportunity for sound investment, large and beautifully fitted corner shop, together with commodious house and garden and brick-built shed, with electric light, situated on high ground in charming and healthy surroundings; district developing quickly; local line now being electrified to connect up with Central London Railway; half-hour from Liverpool Street; business at present under management; price £500. 330/991, Office of this Paper.

EIGH-ON-SEA.—Well-established Retail Business, with small N.H.L. and D. and P. work; main road; well-stocked lock-up shop and rear premises; rent £78 inclusive; total business last year £1,102, with £479 stock; no near opposition. Further particulars, Geo. A. Cawkwell, 1075 London Road, Leigh-on-Sea.

LONDON, S.E.—Main-road shop, good position, suitable for Qualified Chemist and wife; good Dispensing and Photographic; could be increased by energetic man; price £450; good stock. 234/11, Office of this Paper.

NORTH WALES.—Exceptional opportunity to acquire a sound established business situate in a beauty spot, at low price; proprietor taking over a larger business; fully stocked; lease; low rental; Veterinary, Photo, Retail Dispensing, Optics; suit beginner; Welsh essential; full details to bona fide enquirers; stamped addressed envelope. 233/6, Office of this Paper.

SOUTH AFRICA.—Chemist and Fancy Goods Business for sale in the Orange Free State; no opposition; only Chemist; net profit 1937-38, £441; stock and fixtures at valuation; goodwill £250; inclusive price about £950; established 12 years; owner returning to England; full particulars on application. Dittmar, Rouxville, Orange Free State, Africa.

CHEMIST'S Business for sale in Edinburgh, in main thoroughfare; attractive shop; capable of improvement, particularly if Optical work could be added; rental £30 per annum; price £125, plus stock at valuation. Particulars from Charles H. Burrows, C.A., 16 Picardy Place, Edinburgh.

DRUGGIST'S Business, stock, fixtures, etc., for sale; modern shop let on long lease, on main road in Peterborough; low rent. Daking & Wright, Broadway, Peterborough.

£300.—**N**ORTHERN TOWN, main road, lock-up shop; light overheads; near Doctor (large practice); heavily populated area and new housing estate near; N.H.I., Selo and Ucal agencies; good D. & P.; stock alone worth over £200. 235/2, Office of this Paper.

BUSINESSES WANTED

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

REQUIRED immediately, several good businesses in the London R area, preferably City, West End or inner suburbs, but not essential; minimum turnover £2,500 per annum, but smaller propositions considered if possessing definite scope for increase to that figure or above; negotiations can be entered into forthwith; prospective vendors are invited to communicate as soon as possible under assurance of confidence with Ernest J. George & Co., 329 High Holborn, London, W.C.1.

SOUND Drug Store required, North or East Riding preferred; give full particulars first instance; partnership entertained. 232/3, Office of this Paper.

PREMISES TO LET

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

ILFFORD, ESSEX.—Fine opening for Chemist in sound trading position, at very moderate rent. Apply P. E. Brand, Ltd., 345 Eastern Avenue, Ilford, Essex.

WEST LONDON

PROMINENT CORNER POSITION.

THE remaining units in a MODERN PARADE of lock-up Shops

TO BE LET.

At low commencing rents of

£50 P.A. exclusive.

To enable Tenants to become well established.

Suitable for all Food Trades, Household Stores, Chemist, Shoe Repairers, Hairdressers, Tobacconist and Confectioner. Apply

HILLIER, PARKER, MAY & ROWDEN,
27 Maddox Street, W.1. Tele.: Mayfair 7666, or
GODDARD & SMITH,
22 King Street, St. James's, S.W.1. Tele.: WHI. 2721.

WIGMORE STREET, W.—Excellent trading position, close to Portman Square; modern shop and basement, available on long lease at very moderate rental; suit any high-class trade. Apply Hillier, Parker, May & Rowden, 27 Maddox Street, W.1. Tele.: Mayfair 7666.

A WONDERFUL Opportunity for Chemist and Druggist.—Shop and upper part, large new estate N. London, just nearing completion; no opposition; only three left; rents from £150 per annum; don't miss this wonderful chance. Write for full particulars from E. W. Perry & Daw, 7 Finsbury Square, E.C.2.

CHEMIST.—Excellent opening in Kensington; shop or half-shop with modern front can be secured without premium and on advantageous terms. Apply Letting Office, West Kensington Court, W.14, Fulham 4277, or Managing Agent, Johnston Evans, F.A.I., 17 St. George Street, Hanover Square, W.1. Mayfair 5511.

GENUINE OPPORTUNITY.

OPPPOSITE Metropolitan Station, main road, N.W. suburb, developing district; no competition; new front fitted; nice flat; rent £150-£175 per annum. Write Box 4882, Frost-Smith Advtg., 64 Finsbury Pavement, E.C.2.

GOOD Shop, with first-class living accommodation, on corner of new estate and main road; centre of well-populated district; rent £70; long lease; excellent opening for Chemist. Brooks, Auctioneers, Tonbridge.

UNIQUE Opportunity to secure imposing new corner shop premises with very nice living accommodation; main road position in Hove; eminently suitable for Chemist; rapid development all round; rent £175 per annum; new lease granted. Full details from The Agents, Sang & Leonard, 117 Western Road, Brighton, 1. (Tel.: Hove 2277.)

PARTNERSHIPS

PROPRIETOR of sound business would like Qualified Chemist as partner, ambitious and anxious to further development of business; wide scope. Write, stating particulars as to ability, amount available, etc., to 234/57, Office of this Paper.

SALES BY AUCTION

Removed for Convenience of Sale to the Auction Rooms.

5 LITTLE BRITAIN (close to G.P.O.), CITY.

CHEMIST'S SHOP FITTINGS, Drug Run, Wall Showcases, Glass Counters, Silent Salesmen, Mirrors, National Cash Register, Display Stands, Glass Shelves, Office Furniture, Safes, Typewriters, etc.

B. NORMAN & SON

will sell by Auction, WEDNESDAY next, July 20, at 12 noon. View day prior. Catalogues on application. Tel.: NAT. 6463.

AGENCIES

BRITISH old-established Manufacturers of Shaving Brushes (medium and high-class grades) invite Overseas communications from Houses able to undertake Sole Distribution. 330/988, Office of this Paper.

A GENTS on commission wanted for London and Provinces with established connexions amongst Chemists to market an imported product that offers considerable selling possibilities. Write, stating exact territory covered, number of live accounts, etc., to Box "E.D." c/o 95 Bishopsgate, E.C.2.

NAMES AND ADDRESSES

When sending advertisements for any of the columns of this Supplement, advertisers—as a guarantee of good faith and not necessarily for publication—should always give their names and addresses. It sometimes occurs that this rule is not adhered to and delay and disappointment ensue. Strict attention to this detail will be appreciated.

EDUCATIONAL

WELL-PAID POSITIONS have been offered to all graduated students with personality of the National School of Chiropody—the largest, most successful, most expertly staffed and best equipped school in the world, with practical training in Foot Hospitals treating over 100,000 patients annually. Full qualification, M.N.I.Ch., in six months through complete, intensive course. Next term commencing shortly. Write for Prospectus to Secretary, National School of Chiropody (Dept. 90), 133 Upper Street, London, N.1.

APPOINTMENTS

COUNTY BOROUGH OF SOUTHAMPTON. BOROUGH GENERAL HOSPITAL.

DISPENSER.

APPLICATIONS are invited from male or female Dispensers for work in the Borough General Hospital, Shirley Warren, Southampton, (500 beds.) Applicants should be experienced and fully-qualified Dispensers (Apothecaries Hall).

The salary payable will be at the rate of £175 per annum. The position is non-resident and there will be no emoluments.

The position is a designated one under the Local Government Superannuation Act of 1922.

Applications, giving details of experience, qualifications, etc., together with copies of three testimonials, should be addressed to the Medical Officer of Health, Civic Centre, Southampton, to reach him not later than July 30, 1938.

R. RONALD H. MEGGESON,
Town Clerk.

TAUNTON AND SOMERSET HOSPITAL (132 BEDS), TAUNTON.

ADISPENSER required end of August; M.P.S.; previous hospital experience, with a knowledge of buying; salary £200 per annum, 5 per cent. deduction for Federated Superannuation Scheme contributions.

Applications, stating age and experience, together with copies of two recent testimonials, to be sent to F. J. J. Stacey, Secretary.

APPRENTICES

HARVEY & CO. (CHEMISTS), LTD., 37 Old Brompton Road, South Kensington, London, S.W.7, have an opening for an apprentice; excellent all-round experience in a high-class business.

SITUATIONS OPEN

RETAIL (HOME)

6s. for 40 words or less; 6d. for every additional 10 word or less, prepaid. (Box No., 1s. extra.)

BIRMINGHAM, Near.—Qualified lady or gentleman, for healthy good-class country business, with assistance; light Counter and Dispensing trade; no Bank Holiday or Sunday duty; salary £4 per week. Toon, Ltd., Chemists, Water Orton, Birmingham.

BRISTOL.—Wanted immediately, if possible, Qualified Chemist. Apply, stating full particulars in first letter of experience, age, and salary required; permanency; forward copies of references, also photograph if possible. Joy's Chemists, Ltd., 3 Birchwood Road, St. Anne's Park, Bristol, 4.

LONDON, N.E.—Qualified (male) required for good-class Pharmacy; comfortable and permanent situation for good all-round man; age a secondary consideration. Also Locum from July 25. 234/27, Office of this Paper.

LONDON, S.W.9.—Unqualified Male Assistant required. State when free, age, salary and usual particulars to Mr. H. R. Edgecombe, 77 Atlantic Road, London, S.W.9.

LONDON, W.—Qualified Assistant, accustomed to high-class Retail and Dispensing; good Window-dresser and Salesman; unimpeachable references essential (age under 30). 330/992, Office of this Paper.

LONDON, W.—Qualified Assistant wanted; good Salesman, West End experience. Application by letter first, giving full particulars, age, experience, salary, etc., to Hayman & Freeman, 93 Piccadilly, London, W.1.

NEW BRIGHTON.—Qualified; permanency; please state when free and salary required. 234/58, Office of this Paper.

SOUTH COAST.—Capable Unqualified Assistant, male, required; accustomed to good-class Dispensing and Counterwork; permanency. Apply, giving full particulars of experience, age, height and salary required, 234/36, Office of this Paper.

SURREY.—Unqualified Assistant, with all-round experience; either sex, willing and capable, for Dispensing, Counter and Display; good prospects for suitable applicant (no Welsh). State full particulars, experience, age, salary, outdoors. Applicants not answered in 4 days respectfully declined. 234/29, Office of this Paper.

ASSISTANT (young); good Dispensing and Counter experience. State full particulars to 234/9, Office of this Paper.

CHEMIST-OPTICIAN (S.M.C. or B.O.A.) wanted, permanent; good appearance and address; references required (age not over 35). Apply, giving usual particulars of experience, etc., to T. Jones Davies, 33 Terrace Road, Aberystwyth.

JUNIOR or Improver wanted; must be well trained; state experience, salary required, and when disengaged; enclose photograph. W. H. Green (Chemists), Ltd., 28 Earl Street, Coventry.

LADY Assistant, early September, for small Yorkshire town, to develop Toilet and Sundries in new Pharmacy; good-class business; Library. Age, height, photo, testimonials (to be returned); if School Certificate and subjects taken, Laverack & Sons, Market Place, Malton.

LADY Pharmacist as Manageress of Pharmacy section of departmentally arranged Store; salary £4 at least; no Sunday or holiday duty; suit newly Qualified; prospects. Application forms at once from Ten Acres and Stirchley Co-operative Society, Ltd., Umberslade Road, Stirchley, Birmingham.

LEWIS & BURROWS have a vacancy for an experienced Qualified Assistant. Apply 146 Holborn, E.C.1.

M.P.S. (LADY) required (age no object) for a Departmental Store in the North, closing half-day Saturday. Apply, stating experience, salary required, and enclosing photograph, which will be returned. 330/987, Office of this Paper.

PART-TIME Dispenser and Book-keeper (lady) required for firm of Doctors, Ilford district; two half-days weekly; approximate hours 2-4 and 6-9 p.m.; salary £1 per week. Apply, stating experience, to 234/50, Office of this Paper.

PART-TIME Qualified, for S.E. London; evenings 6 till 8 (or as arranged); usual middle-class Retail. Please state age, wages, etc., to 234/400, Office of this Paper.

PHARMACY.—Qualified Locum required. Female Assistant required; must have had general Pharmaceutical and shop experience; widows and single persons only considered. Apply in writing, stating age and experience, to the Staff Manager, Royal Arsenal Co-operative Society, Ltd., 115 Powis Street, Woolwich, S.E.18. Endorse envelope "Pharmacy." NOTE.—Canvassing of members of the General Committee or Officials will disqualify.

PROGRESSIVE position for young Qualified Man in Retail business and production of Proprietary lines; must be a tactful Salesman. J. B. Tillott, 70 Marsham Street, S.W.1. Telephone: Abbey 1487.

QUALIFIED Assistant required immediately; permanency; Midlands, near Birmingham; prospect of Managership to suitable applicant. Write, stating age, height, wages required, references and full particulars, 234/23, Office of this Paper.

QUALIFIED Assistant wanted as soon as possible (age 28/35); permanency to suitable man. All particulars in reply to Jones, 21 Adare Street, Bridgend, Glam.

PHOTOGRAPHS, TESTIMONIALS, &c.

When replying to advertisements in this section applicants are strongly advised not to send (unless specially requested) ORIGINAL TESTIMONIALS or VALUABLE PHOTOGRAPHS. Many of these announcements produce an exceptionally large response and, as can be readily understood, the task of returning photographs, testimonials, &c., is one of some difficulty.

QUALIFIED Lady Assistant required, end of August; one used to working-class business, N.H.I., etc. Also capable Unqualified immediately. State age, experience, and salary required. Replies to H. S. J., Wallom's Cash Chemists, 89/91 Whitehorse Road, Croydon.

QUALIFIED Lady (or Gentleman), one just Qualified preferred, for permanent progressive post at new shopping centre at Bexley; this is a good start for right person. Full particulars to A. W., 24 Steynton Avenue, Bexley (Albany Park Station).

QUALIFIED required at once for new shop; good Dispenser and Counter experience necessary. Write or call 683 Finchley Road, N.W.2.

REQUIRED for firm of Doctors in N.W. suburb, part-time Assistant Dispenser and Book-keeper (lady), 3 or 4 days a week (including Saturday), 7 hours daily, approximately. Apply, with usual particulars, to Edwards, 41 Goodwyn Avenue, Mill Hill, N.W.7.

REQUIRED for London, E., Qualified Chemist, good Dispenser and Counter, for end of July; state salary and give usual particulars; permanency if suitable; interview any time. Devons Drug Stores, 14 Devon Road, E.3.

SAVORY & MOORE require a Qualified and an Unqualified Junior Assistant; excellent prospects. Write full particulars, age, height, experience, salary expected, etc., to H. F. Stapley, 61 Welbeck Street, W.1.

SMART Young Lady wanted; Display, Stock, etc. Apply, giving full details of experience, age and wages required, Baker, Chemist, Windsor.

SUPERINTENDENT required first week in September for old-established City Business; light duties and hours; closed Saturday afternoon and all day Sunday. 44 Copthall Avenue, E.C.2.

UNQUALIFIED Assistant, Junior (Lady or Gentleman), for light Retail; easy hours, no holiday duty; about 25 miles from London. State full particulars, etc., with salary required; photo if possible (returned). 234/15, Office of this Paper.

UNQUALIFIED Assistant required end of July; permanency. State salary and full details, and when free. Reynolds, Chemist, Stanmore, Middlesex.

UNQUALIFIED Assistant required (Male); good-class business, Dispensing and Counter; permanency. Please send full particulars with salary required, to H. Hocken, Ltd., Chemists, Kingswood, Surrey.

UNQUALIFIED Assistant required; salary £3 per week; must be good Window-dresser and reliable Dispenser. Usual particulars, Towe, 9 St. George's Parade, Oxlow Lane, Dagenham, Essex.

UNQUALIFIED Assistant, young; capable Dispenser. Please state height and photo (if possible) to J. A. Sharp, High Street, Calne, Wilts.

UNQUALIFIED Assistant (under 30) required for brisk Retail with N.H.I., in London S.W. suburb. Please state age, height, when at liberty, and salary required; progressive post for suitable man; time for study could be arranged. 234/100, Office of this Paper.

WANTED.—An experienced Assistant (either sex), for Dispensing and Counter work; vacancy now. Hornby and Miller, Sedlescombe Road, St. Leonards-on-Sea.

WANTED.—Immediately; Qualified Manager for branch. State experience, send photograph and references. Gout, St. Ives, Cornwall.

WANTED, Qualified Chemist; good Window-dresser and Salesman; smart appearance and trustworthy; London. Apply to 227/32, Office of this Paper.

YOUNG Lady Assistant required; knowledge of good-class Toilets and general work. Send photograph if applying by letter. Banks, Chemist, 94 High Street, Ruislip.

YOUNG Lady Dispenser required, beginning September; permanent; mornings and evenings; knowledge Book-keeping. Apply, letter only, stating age, qualification, experience, Drs. Murdoch and Trick, 137 Beulah Road, Thornton Heath, Surrey.

YOUNG Lady to help on Counter with Toilet preparations and general Retail; one living locally and some previous experience preferred. State age, experience and when disengaged, Lyou, 18 Formosa Street, Warwick Avenue, W.9.

YOUNG Qualified Man required for progressive business, S.W. London; permanency, with view to management later for suitable man; commence £4 10s. weekly. Please state age, height, details of experience and when at liberty in first letter; photo (returnable) if convenient. 234/10, Office of this Paper.

VACANCIES FOR LOCUMS

LONDON, 10 minutes from Liverpool Street Station.—Holiday relief; young Qualified; Dispensary duties only; 9.30 a.m.-6.30 p.m.; no Thursday evenings or Sundays; August 29-October 1; state salary required, with usual details. 232/1, Office of this Paper.

MIDLANDS.—Qualified Locum (or with view to permanency if mutually satisfied) required from July 25 for about two months; several Assistants; Dispensing and Counter. State salary required and enclose recent reference and photograph, if possible. 226/4, Office of this Paper.

AUGUST 29 to September 10 inclusive, considered as 2 weeks; Qualified; no Sunday duty. Apply, Loesby Jones, 4 Thayer Street, W.1. Phone: Welbeck 7802.

FROM August 8 to August 20, Qualified; West End; £6 per week. Write age and usual particulars, 330/989, Office of this Paper.

GOOD Qualified Locum required at once for 4 or 5 weeks. G. Tupholme, Chemist, 1 Coleherne Terrace, Earls Court, S.W.5. Flax. 3146.

LOCUM, Qualified, for first week in August (excluding Monday); S.E. London. Age and wages required to 234/4, Office of this Paper.

QUALIFIED Assistant, just through examination, required for about eight weeks; also UNQUALIFIED ASSISTANT (under 30) before end of September; permanency for capable man; must be reliable Dispenser and keen Salesman; middle-class business; pleasant working conditions; first-class references essential. Write or call, T. H. Wilson, 741 Barking Road, Plaistow, E.13.

QUALIFIED Assistant wanted from August 22 to September 4; would suit Chemist wishing a holiday combined with part-time engagement. Smithsons, Preston Circus, Brighton.

QUALIFIED Locum wanted, August 8-20; newly Qualified will suit. Please state salary to Brown's, 119 South Lambeth Road, S.W.8. Phone: Reliance 3760.

UNQUALIFIED Assistant required for two or three months to help over holidays. State full particulars to Gregory & Wrenn, Ltd., East Street, Taunton.

UNQUALIFIED Assistant (young) required for four or five weeks; state salary and usual particulars. B. Fish, 28 Marine Parade Central, Gt. Yarmouth.

WANTED, Juuior Assistant, from July 24 to August 20; accurate Dispenser. Apply, 234/24, Office of this Paper.

WANTED.—Qualified Locum for Family and Dispensing business, August 22 to September 3. Particulars in first letter, Timmis & Kirk, 183 High Street, Beckenham.

WANTED, Unqualified Assistant, to act as Locum for three weeks from August 1 to August 20; please state age, reference, salary required. S. J. Coley, Ltd., Chemists, Stroud.

WHOLESALE

NORTHERN IRELAND Representative required by leading Perfumery house; applicants already carrying non-competitive line will be considered. Apply, with full details, to 330/993, Office of this Paper.

DRUG Grinder, experienced, well-accustomed to edge runner mills and disintegrator, required immediately by one of the principal London Drug houses. Apply 330/990, Office of this Paper.

**ALL HOSPITAL PHARMACISTS & DISPENSERS
SHOULD JOIN AT ONCE**

The National Assoc. of Chemists' Assistants

INCORPORATED IN THE CHEMICAL WORKERS' UNION

BENEFITS : Trade Protection, Legal Aid, Unemployment Benefit, Free Use of Employment Bureau

WRITE FOR PARTICULARS : Arthur J. Gillian, Gen. Sec., 149 Newington Causeway, London, S.E.1

**T. F. BRISTOW & CO., LTD.
COLINDALE, N.W.9**

REQUIRE CAPABLE REPRESENTATIVE for the Northern Counties, resident Newcastle district. Applicants must have thorough knowledge of the Chemists' and Departmental Store trade—others need not apply. Fullest particulars of age, experience, etc., must be given. Terms: Salary, commission and expenses; car provided.

REPRESENTATIVE for well-established house, to call upon Hospitals, Nursing Homes and Medical men, in London North of the Thames, Home and Eastern Counties; applicants should give fullest particulars of their past experience, stating whether any connexion and if car available for travelling. 329/968, Office of this Paper.

TABLET Maker and Sugar Coater wanted for London Wholesale Druggists. 329/960, Office of this Paper.

WANTED by London Manufacturers, Representative, connexion among Chemists, to handle distribution of Electro Medical Lamps and cover inquiries from Hospitals, Clinics, etc., for Ray Therapy apparatus; excellent opportunity for man able to invest. State amount available. 229/2, Office of this Paper.

COLONIAL, INDIAN AND FOREIGN

QUALIFIED Assistant required for Burma, with good possibilities of improvement; must be single. Write, stating full particulars, including age and experience, with photograph, to The British Drug Houses, Ltd., Graham Street, London, N.1.

QUALIFIED Chemist and Optician required for important retail Pharmacy in Uganda; one with Optical qualifications preferred; should be single, between ages of 20 and 30. Write, with full details, giving age and experience, and photograph, to The British Drug Houses, Ltd., Export Department, London.

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2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

A. GREAVES & SON, LTD., Chesterfield, highly recommend Mr. J. T. Smith, "Meridian," Mansfield Road, Hasland, Chesterfield. Qualified Chemist, aged 22, height 5 ft. 8 in., as having had a good all-round training and being thoroughly capable.

A POSITION wanted as Qualified Manager; conscientious, tactful and experienced in all branches; age 40; S.W. London preferred. 234/54, Office of this Paper.

ASSISTANT, Unqualified (32), single, 13 years' London experience (Private and Stores); at present engaged; desires permanency in London; free usual notice; salary required £5 10s. per week. 234/1, Office of this Paper.

ASSISTANT, Unqualified (30), all-round experience in good-class Pharmacies. Smith, 63 Albert Street, Rugby.

ASSISTANT, Unqualified (33), well experienced, Salesman, Window-dresser, Dispenser, capable Buyer, good knowledge Photographic and Book-keeping, disengaged, desires permanency. S., 24 The Risings, Whips Cross, E.17.

EXPERIENCED Registered Pharmacist, now completing long run of Locum work, will be free after September 10, or can take one or two weeks' duty between August 15 and August 29. 233/9, Office of this Paper.

MANAGER, highly Qualified, well educated, seeks permanent progressive position London or South-West England; excellent experience and references. 234/3, Office of this Paper.

M.P.S., O.B.A.C., seeks post as Superintendent early September; experienced over 40 years in every retail department. 234/25, Office of this Paper.

PERMANENCY; Manager (34) desires responsible post; good living accommodation essential; £4 15s. and commission; interview, references, free 3 weeks. "South," 234/18, Office of this Paper.

QUALIFIED, requires position, Epsom district; tall, good all-round experience, Photography, etc.; free one month. Particulars and salary to 234/21, Office of this Paper.

UNQUALIFIED (age 40); Harrogate and London experience; last situation six years. Gibbs, 234A Camden Road, N.W.1.

UNQUALIFIED Assistant (27), male, conscientious, honest, desires to gain further Dispensing experience; last situation two years; free; any district. Mr. Hawking, 60 Rosebery Gardens, Harringay, London, N.4.

UNQUALIFIED, Hall, retired one year; on relief till September; would be glad of permanency; all-round experience; first-class reference. Assistant, 56 High Street, Hanham, Bristol.

UNQUALIFIED Junior Assistant (20 years, 5 ft. 11 in.); well-experienced Salesman for quick Counter business; keen worker; 5 years with late employer; good references; desires permanency. 21 Beverley Road, Anerley, London, S.E.20.

UNQUALIFIED (25), experienced; excellent Camera sales, accurate Dispenser; highest references; free until September 3. 4 Waldegrave Road, Brighton.

LOCUMS SEEKING ENGAGEMENTS

AS Locum, Qualified; experienced in all branches; ex proprietor; free July 23-August 6. Phone: Hendon 2634.

LOLOCUM or temporary Assistant; South only; free 24th inst.; male; good references; abstainer. Chemist, 42 Alexandra Road, Southampton.

LOLOCUM, well-experienced Unqualified Assistant; thoroughly capable Dispensing, Counter, Prescribing, Photo and all branches Pharmacy, some Optics; free July 18. A. C. R., 40 Sibpurne Road, Tonbridge, Kent.

QUALIFIED, August 2 to 12, both inclusive; fully experienced; highest references. Jenkins, 12 North Parade, Bath.

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A.A.A. —WELL-KNOWN Traveller (31) seeks permanency; Proprietary/Sundries; 8 years London, suburbs, South Coast; splendid connexion; unequalled Sales Record; productive, persuasive; car; fidelity bond; well educated; lifetime with right firm; 500 live accounts after unsurpassable sales record. 234/56, Office of this Paper.

AFIRST-CLASS Sales Representative (ex-Service Officer); extensive connexion Stores, Chemists, Hairdressers, etc., Northern Counties and all Scotland; desires post good proprietary house; own car. 234/55, Office of this Paper.

EXPERIENCED (age 28), good personality, University education; keen Salesman and Propagandist; excellent connexion London; disengaged. Hornblower, 23 Blakesware Gardens, N.9.

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WANTED, Situation as Packer, Home and Export. Reply to Mr. Odiam, F.C., Seven Florence Street, Islington, N.1.

SPESIAL Representative, very well known and with proof of personal contact most Chemists, Wholesale, Retail throughout England and Scotland, open for an appointment; keen negotiator; persuasive, pleasing personality; good correspondent; highest references covering 19 years, Drug and Chemical trades. P.C.B. 288/32, Office of this Paper.

TRAINING, long experience, excellent records; health; address; car; Representative, Propagandist; salary and expenses. "Sagittarius," c/o Jackson, Rowan Avenue, Boothville, Northampton.

YOUNG Pharmacist (28), desires representation with old-established firm where previous experience not essential; Northern areas preferred, 235/3, Office of this Paper.

COLONIAL, INDIAN AND FOREIGN

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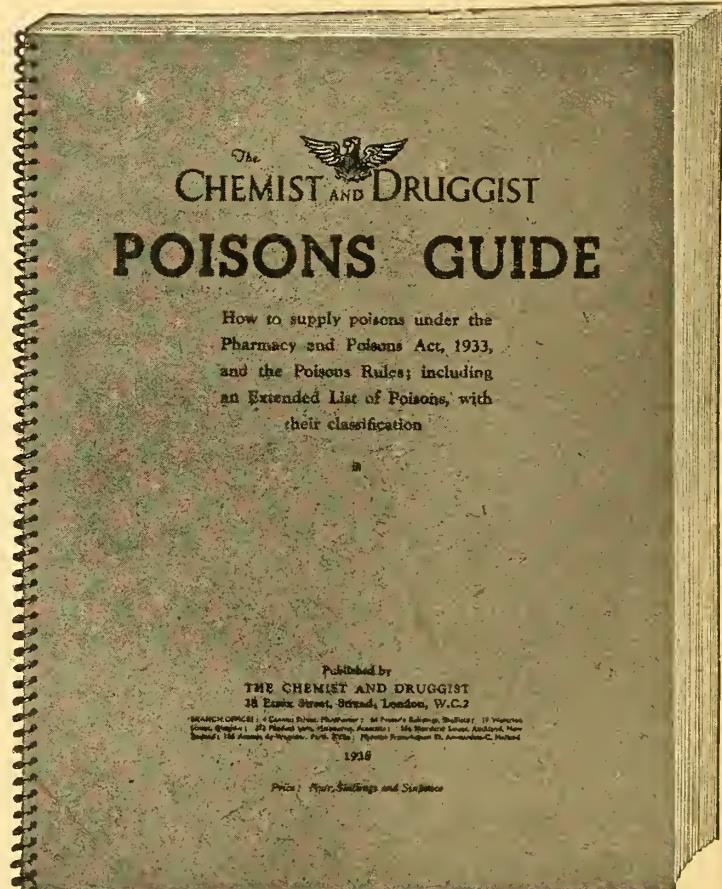
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